

ATTACHMENT 2: DATA VALIDATION REPORTS

This attachment contains the data validation reports performed by an independent subcontractor, Laboratory Data Consultants, Inc. (LDC) of Carlsbad, California.



LABORATORY DATA CONSULTANTS, INC.

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Tidewater, Inc.
3761 Attucks Drive
Powell, OH 43065
ATTN: Mr. David Conner

March 30, 2018

SUBJECT: NASA JPL, 1Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on February 27, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #41286:

<u>SDG #</u>	<u>Fraction</u>
18-02588, 18-02744, 18-02838 18-02960, 18-03079	Volatiles, Chromium, Wet Chemistry

The data validation was performed under Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, National Functional Guidelines for Organic Superfund Methods Data Review, January 2017
- USEPA, National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007, update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
Project Manager/Senior Chemist

90/10 (client select) EDD LDC #41286 (Tidewater- Powell, OH / NASA JPL, 1Q2018)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (524.2)		Cr (200.8)		Cr(VI) (7196)		CLO ₄ (314.0)		Cl, SO ₄ NO ₃ -N (300.0)		NO ₂ -N (353.2)		O-PO ₄ -P (365.1)																				
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	
Matrix: Water/Soil																																				
A	18-02588	02/27/18	03/20/18	10	0	6	0	6	0	9	0	-	-	-	-	-	-																			
A	18-02588	02/27/18	03/20/18	1	0	1	0	1	0	1	0	-	-	-	-	-	-																			
B	18-02744	02/27/18	03/20/18	11	0	6	0	6	0	10	0	-	-	-	-	-	-																			
B	18-02744	02/27/18	03/20/18	1	0	1	0	1	0	1	0	-	-	-	-	-	-																			
C	18-02838	02/27/18	03/20/18	12	0	10	0	10	0	11	0	-	-	-	-	-	-																			
C	18-02838	02/27/18	03/20/18	1	0	1	0	1	0	1	0	-	-	-	-	-	-																			
D	18-02960	02/27/18	03/20/18	8	0	8	0	8	0	7	0	0	0	0	0	0	0																			
D	18-02960	02/27/18	03/20/18	1	0	1	0	1	0	1	0	1	0	1	0	1	0																			
E	18-03079	02/27/18	03/20/18	12	0	11	0	11	0	11	0	-	-	-	-	-	-																			
Total	T/PG			57	0	45	0	45	0	52	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 15, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02588

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-1-012318	1802588-01	Water	01/23/18
MW-20-5	1802588-02	Water	01/23/18
DUP-1-1Q18	1802588-03	Water	01/23/18
MW-20-4	1802588-04	Water	01/23/18
MW-20-3	1802588-05	Water	01/23/18
MW-20-2**	1802588-06**	Water	01/23/18
MW-19-5	1802588-07	Water	01/23/18
MW-19-4	1802588-08	Water	01/23/18
MW-19-3	1802588-09	Water	01/23/18
EB-1-012318	1802588-10	Water	01/23/18
SB-1-012318	1802588-11	Water	01/23/18
MW-19-4MS	1802588-08MS	Water	01/23/18
MW-19-4MSD	1802588-08MSD	Water	01/23/18

**Indicates sample underwent Level IV review

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV evaluation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
01/23/18	Pentachloroethane	49.1	All samples in SDG 18-02588	UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-1-012318 was identified as a trip blank. No contaminants were found.

Sample EB-1-012318 was identified as an equipment blank. No contaminants were found.

Sample SB-1-012318 was identified as a source blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples MW-20-5 and DUP-1-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-20-5	DUP-1-1Q18	
Styrene	0.25	0.16	44

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to ICV %D, data were qualified as estimated in eleven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-02588

Sample	Compound	Flag	A or P	Reason
TB-1-012318 MW-20-5 DUP-1-1Q18 MW-20-4 MW-20-3 MW-20-2** MW-19-5 MW-19-4 MW-19-3 EB-1-012318 SB-1-012318	Pentachloroethane	UJ (all non-detects)	A	Initial calibration verification (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-02588

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	ICAL ≤ 20% r ² ICV ≤ 30%
IV.	Continuing calibration	A	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 10 SB = 11
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	*A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 2/3
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
-				
1	TB-1-012318	1802588-01	Water	01/23/18
2	MW-20-5 <i>D</i>	1802588-02	Water	01/23/18
3	DUP-1-1Q18 <i>D</i>	1802588-03	Water	01/23/18
4	MW-20-4	1802588-04	Water	01/23/18
5	MW-20-3	1802588-05	Water	01/23/18
6	MW-20-2**	1802588-06**	Water	01/23/18
7	MW-19-5	1802588-07	Water	01/23/18
8	MW-19-4	1802588-08	Water	01/23/18
9	MW-19-3	1802588-09	Water	01/23/18
10	EB-1-012318	1802588-10	Water	01/23/18
11	SB-1-012318	1802588-11	Water	01/23/18
12	MW-19-4MS	1802588-08MS	Water	01/23/18
13	MW-19-4MSD	1802588-08MSD	Water	01/23/18

- B002991-BLK1

LDC #: 41286 A1

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: [Signature]

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	/			
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) < 30%?		/		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	/			
Were all percent differences (%D) of continuing calibration < 30%?	/			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed with each analysis batch?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?				

LDC #: 41286 A1

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: JVG
 2nd Reviewer: _____

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) within 70-130%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within +/-30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 41286X1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A
 Y N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ %)
	<u>2</u>	<u>3</u>	
<u>FF</u>	<u>0.25</u>	<u>0.16</u>	<u>44</u>

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	01/25/18	Chloroform (IS1)	0.746679	0.746679	0.780421	0.780421	3.189	3.189
			Trichloroethene (IS2)	0.328367	0.328367	0.352892	0.352892	10.236	10.236
			Ethylbenzene (IS3)	1.822044	1.822044	1.736881	1.736881	6.508	6.508

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	25JAN18 MS V5	01/25/18	Chloroform (IS1)	0.780421	0.821371	0.821371	5.2	5.2
			Trichloroethene (IS2)	0.352892	0.365341	0.365341	3.5	3.5
			Ethylbenzene (IS3)	1.736881	1.945388	1.945388	12.0	12.0

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VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

Page: 1 of 1Reviewer: JVG2nd reviewer: [Signature]**METHOD:** GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: 6

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	10.69	101	101	0
Bromofluorobenzene	↓	9.56	95.6	95.6	↓
1,2-Dichlorobenzene-d4	↓	9.39	93.9	93.9	↓
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

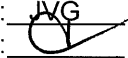
	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

LDC #: 41286 A1

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: JVG
 2nd Reviewer: 

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = | MSC - MSDC | * 2 / (MSC + MSDC)

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 12/13

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	26.16	26.48	105	105	106	106	1.22	1.22
Trichloroethene	↓	↓	0.190	24.10	24.62	95.6	95.6	97.7	97.7	2.13	2.13
Benzene	↓	↓	0	26.61	27.08	106	106	108	108	1.75	1.75
Toluene	↓	↓	↓	25.52	25.42	102	102	102	102	0.393	0.393
Chlorobenzene	↓	↓	↓	25.05	23.14	100	100	92.6	92.6	7.93	7.93

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41286 A1

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JYG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: B062991-BS1

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	26.17	NA	105	105				
Trichloroethene	↓	↓	25.59	↓	102	102				
Benzene	↓	↓	26.10	↓	105	105				
Toluene	↓	↓	24.17	↓	96.7	96.7				
Chlorobenzene	↓	↓	22.94	↓	91.8	91.8				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41286 A1

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

Compound results reported with a positive detect were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample purged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 6, TCE:

$$\text{Conc.} = \frac{(7466)(10.0)}{(328607)(0.3528919)} = 0.64 \text{ ug/L}$$

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration ()	Acceptable (Y/N)
			0.64		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02588

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1802588-02	Water	01/23/18
DUP-1-1Q18	1802588-03	Water	01/23/18
MW-20-4	1802588-04	Water	01/23/18
MW-20-3	1802588-05	Water	01/23/18
MW-20-2**	1802588-06**	Water	01/23/18
EB-1-012318	1802588-10	Water	01/23/18
SB-1-012318	1802588-11	Water	01/23/18
MW-20-5MS	1802588-02MS	Water	01/23/18
MW-20-5MSD	1802588-02MSD	Water	01/23/18
MW-20-5DUP	1802588-02DUP	Water	01/23/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.90200 ug/L	All samples in SDG 18-02588

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-20-5	Chromium	0.88 ug/L	0.88U ug/L
DUP-1-1Q18	Chromium	1.0 ug/L	1.0U ug/L
MW-20-4	Chromium	0.99 ug/L	0.99U ug/L
MW-20-3	Chromium	1.0 ug/L	1.0U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-20-2**	Chromium	1.1 ug/L	1.1U ug/L
EB-1-012318	Chromium	1.3 ug/L	1.3U ug/L
SB-1-012318	Chromium	1.2 ug/L	1.2U ug/L

VI. Field Blanks

Sample EB-1-012318 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-1-012318	Chromium	1.3

Sample SB-1-012318 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
SB-1-012318	Chromium	1.2

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples MW-20-5 and DUP-1-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-20-5	DUP-1-1Q18	
Chromium	0.88	1.0	13

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-02588

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-02588

Sample	Analyte	Modified Final Concentration	A or P
MW-20-5	Chromium	0.88U ug/L	A
DUP-1-1Q18	Chromium	1.0U ug/L	A
MW-20-4	Chromium	0.99U ug/L	A
MW-20-3	Chromium	1.0U ug/L	A
MW-20-2**	Chromium	1.1U ug/L	A
EB-1-012318	Chromium	1.3U ug/L	A
SB-1-012318	Chromium	1.2U ug/L	A

LDC #: 41286A4a
 SDG #: 18-02588
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 3/8/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	Not Required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = 6, SB = 7
VII.	Matrix Spike/Matrix Spike Duplicates	ASW	(8,9)
VIII.	Duplicate sample analysis	A	10
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(1,2)
XII.	Internal Standard (ICP-MS)	A	Not Reviewed for Level III
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-20-5	1802588-02	Water	01/23/18
2	DUP-1-1Q18	1802588-03	Water	01/23/18
3	MW-20-4	1802588-04	Water	01/23/18
4	MW-20-3	1802588-05	Water	01/23/18
5	MW-20-2**	1802588-06**	Water	01/23/18
6	EB-1-012318	1802588-10	Water	01/23/18
7	SB-1-012318	1802588-11	Water	01/23/18
8	MW-20-5MS	1802588-02MS	Water	01/23/18
9	MW-20-5MSD	1802588-02MSD	Water	01/23/18
10	MW-20-5DUP	1802588-02DUP	Water	01/23/18
11				
12				
13				

Notes: _____

Method:Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?			✓	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?			✓	
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (mg/l)	Action Level	1	2	3	4	5	6	7		
Cr		0.90200		4.51	0.88	1.0	0.99	1.0	1.1	1.3	1.2		

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 41286A4a
SDG #: 18-02588

VALIDATION FINDINGS WORKSHEET

Field Blanks

Page: 1 of 1
Reviewer: JB
2nd reviewer: ~~_____~~

METHOD: Trace Metals (EPA CLP SOW ILM02.1)

N N/A Were field blanks identified in this SDG?
 N N/A Were target analytes detected in the field blanks?

Sample: 6 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units ($\mu\text{g/L}$)
Cr	1.3

Sample: 7 Field Blank / Trip Blank / Rinsate / Other SB (circle one)

Analyte	Concentration Units ($\mu\text{g/L}$)
Cr	1.2

LDC#: 41286A4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: YS
2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6020A/7000)

Analyte	Concentration (ug/L)		RPD	
	1	2		
Chromium	0.88	1.0	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286A4a.wpd

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
I	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 8:14	Cr	50.465 ug/L	50.000 ug/L	1017.	1017.	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV _w	ICP/MS (Continuing calibration) 1:30 5:54	Cr	41.528 ug/L	40.000 ug/L	1047.	1047.	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated / Found %RSD / X%	Acceptable (Y/N)
	Mass Axis	7.014	7.025	± 0.1 AMU	NA	Y
	%RSD	114.9	188215.615	≤ 5% RSD	1.17. RSD	Y

Comments:

VALIDATION FINDINGS WORKSHEET

Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
 Found = SSR (spiked sample result) - SR (sample result).
 True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
 D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
 SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample	Cr	44.623 ug/L	40.000 ug/L	112%	112%	Y
MS	Matrix spike	Cr	0.877 (SSR-SR) 42.704 - 0.877 = 41.827 ug/L	40.000 ug/L	105%	105%	Y
MSD	Duplicate	Cr	42.248 ug/L	Found: 42.704 ug/L	1.08 RPD	1.08 RPD	Y
PS	^{10/9.8} Post digestion spike	Cr	42.064 - SR = 41.204 ug/L	SR = 0.85946 ug/L SA = 40.000 ug/L	103%	103%	Y
	ICP serial dilution						

Comments: SD - Not Reported, result < RL.

LDC #: 4128644a
SDG #: 18-02588

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: JG
2nd reviewer: [Signature]

METHOD: Trace metals (EPA CLP SOW ILM02.1)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
- Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
- Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Cr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

From Raw Data Cr = 1.053 µg/L

- RD = Raw data concentration
- FV = Final volume (ml)
- In. Vol. = Initial volume (ml) or weight (G)
- Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
	<u>5</u>	<u>Cr</u>	<u>1.1</u>	<u>1.1</u>	<u>Y</u>

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02588

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1802588-02	Water	01/23/18
DUP-1-1Q18	1802588-03	Water	01/23/18
MW-20-4	1802588-04	Water	01/23/18
MW-20-3	1802588-05	Water	01/23/18
MW-20-2**	1802588-06**	Water	01/23/18
MW-19-5	1802588-07	Water	01/23/18
MW-19-4	1802588-08	Water	01/23/18
MW-19-3	1802588-09	Water	01/23/18
EB-1-012318	1802588-10	Water	01/23/18
SB-1-012318	1802588-11	Water	01/23/18
MW-20-2MS	1802588-06MS	Water	01/23/18
MW-20-2MSD	1802588-06MSD	Water	01/23/18
MW-20-2DUP	1802588-06DUP	Water	01/23/18
MW-19-4MS	1802588-08MS	Water	01/23/18
MW-19-4MSD	1802588-08MSD	Water	01/23/18
MW-19-4DUP	1802588-08DUP	Water	01/23/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method 7196

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-1-012318 was identified as an equipment blank. No contaminants were found.

Sample SB-1-012318 was identified as a source blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits.

Relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
MW-19-4MS/MSD (All samples in SDG 18-02588)	Perchlorate	15.3 (≤15)	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-20-5 and DUP-1-1Q18 were identified as field duplicates. No results were detected in any of the samples.

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to MS/MSD RPD, data were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-02588

Sample	Analyte	Flag	A or P	Reason
MW-20-5 DUP-1-1Q18 MW-20-4 MW-20-3 MW-20-2** MW-19-5 MW-19-4 MW-19-3 EB-1-012318 SB-1-012318	Perchlorate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD)

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-02588

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration	A	
III.	Calibration verification	A	
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB=9, SB=10
VI.	Matrix Spike/Matrix Spike Duplicates	SW	(11,12) (14,15)
VII.	Duplicate sample analysis	A	13, 14
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	ND	(1,2)
X.	Sample result verification	A	Not reviewed for Level III validation
XI.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-20-5	1802588-02	Water	01/23/18
2	DUP-1-1Q18	1802588-03	Water	01/23/18
3	MW-20-4	1802588-04	Water	01/23/18
4	MW-20-3	1802588-05	Water	01/23/18
5	MW-20-2**	1802588-06**	Water	01/23/18
6	MW-19-5	1802588-07	Water	01/23/18
7	MW-19-4	1802588-08	Water	01/23/18
8	MW-19-3	1802588-09	Water	01/23/18
9	EB-1-012318	1802588-10	Water	01/23/18
10	SB-1-012318	1802588-11	Water	01/23/18
11	MW-20-2MS	1802588-06MS	Water	01/23/18
12	MW-20-2MSD	1802588-06MSD	Water	01/23/18
13	MW-20-2DUP	1802588-06DUP	Water	01/23/18
14	MW-19-4MS	1802588-08MS	Water	01/23/18
15	MW-19-4MSD	1802588-08MSD	Water	01/23/18
16	MW-19-4DUP	1802588-08DUP	Water	01/23/18
17				

LDC #: 41286A6
SDG #: 18-02588
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 3/8/18
Page: 2 of 2
Reviewer: QB
2nd Reviewer: _____

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18				
19				
20				
21				

Notes: _____

Method: Inorganics (EPA Method see cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.		✓		
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.		✓		
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
1-5, 9, 10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
2c	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
11-13	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
14-16	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates

METHOD: Inorganics, EPA Method See Cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Was a matrix spike analyzed for each matrix in this SDG?
- N N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.
- N N/A Were all duplicate sample relative percent differences (RPD) \leq 20% for water samples and \leq 35% for soil samples?

LEVEL IV ONLY:

- N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	(14,15)	W	ClO ₄			15.3(15)	All	J/W/A (ND/Det)

Comments: _____

LDC #: 41286A4

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: 13
 2nd Reviewer: ✓

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr⁶⁺ was recalculated. Calibration date: 12/26/17

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr ⁶⁺	s1	0	0	0.999808	0.999815	Y
		s2	0.002	0.00153			
		s3	0.005	0.00365			
		s4	0.025	0.01809			
		s5	0.05	0.03509			
		s6	0.1	0.06882			
Calibration verification	Cl ₀₄	ICV	FOUND: 9.429 ug/L	TRUE: 10.000 ug/L	94.3%	95.97	Y
Calibration verification	Cr ⁶⁺	CCV ₂	FOUND: 0.0518 mg/L	TRUE: 0.050000 mg/L	104%	105%	Y
Calibration verification							

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41286A4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: JB
2nd Reviewer: [Signature]

METHOD: Inorganics, Method See Cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample	C164	9.4296 µg/L	10.000 µg/L	94%	95%	Y
MS	Matrix spike sample ¹⁹¹²⁰	Cr6+	ND (SSR-SR) 0.056102 mg/L	0.052632 mg/L	107%	105%	Y
MSD	Duplicate sample	Cr6+	0.056102 mg/L	0.056102 mg/L	0 RPD	0.6897 RPD	Y

Comments: _____

LDC #: 41286A6

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: JB
2nd reviewer:

METHOD: Inorganics, Method See Cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
- Y N N/A Are results within the calibrated range of the instruments?
- Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for _____ reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation:

N/A: Sample = Non-DETECT.

#	Sample ID	Analyte	Reported Concentration ()	Calculated Concentration ()	Acceptable (Y/N)

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 15, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02744

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-2-012418	1802744-01	Water	01/24/18
MW-14-5	1802744-02	Water	01/24/18
MW-14-4	1802744-03	Water	01/24/18
MW-14-3	1802744-04	Water	01/24/18
MW-14-2**	1802744-05**	Water	01/24/18
MW-14-1	1802744-06	Water	01/24/18
MW-19-2	1802744-07	Water	01/24/18
MW-19-1	1802744-08	Water	01/24/18
MW-26-2	1802744-09	Water	01/24/18
DUP-2-1Q18	1802744-10	Water	01/24/18
MW-26-1	1802744-11	Water	01/24/18
EB-2-012418	1802744-12	Water	01/24/18
MW-14-3MS	1802744-04MS	Water	01/24/18
MW-14-3MSD	1802744-04MSD	Water	01/24/18

**Indicates sample underwent Level IV review

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV evaluation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
01/23/18	Pentachloroethane	49.1	All samples in SDG 18-02744	UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
01/26/18	Bromomethane trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	67.1 43.8 57.6 39.9	All samples in SDG 18-02744	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-2-012418 was identified as a trip blank. No contaminants were found.

Sample EB-2-012418 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples MW-26-2 and DUP-2-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-26-2	DUP-2-1Q18	
Chloroform	2.0	1.4	35
cis-1,2-Dichloroethene	0.32	0.27U	200
Tetrachloroethene	2.7	2.3	16
Trichloroethene	0.44	0.19	79

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to ICV %D and continuing calibration %D, data were qualified as estimated in twelve samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-02744

Sample	Compound	Flag	A or P	Reason
TB-2-012418 MW-14-5 MW-14-4 MW-14-3 MW-14-2** MW-14-1 MW-19-2 MW-19-1 MW-26-2 DUP-2-1Q18 MW-26-1 EB-2-012418	Pentachloroethane	UJ (all non-detects)	A	Initial calibration verification (%D)
TB-2-012418 MW-14-5 MW-14-4 MW-14-3 MW-14-2** MW-14-1 MW-19-2 MW-19-1 MW-26-2 DUP-2-1Q18 MW-26-1 EB-2-012418	Bromomethane trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-02744

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	ICAL = 20% ICV = 30%
IV.	Continuing calibration	SW	CV = 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 12
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	*A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 9/10
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-2-012418	1802744-01	Water	01/24/18
2	MW-14-5	1802744-02	Water	01/24/18
3	MW-14-4	1802744-03	Water	01/24/18
4	MW-14-3	1802744-04	Water	01/24/18
5	MW-14-2**	1802744-05**	Water	01/24/18
6	MW-14-1	1802744-06	Water	01/24/18
7	MW-19-2	1802744-07	Water	01/24/18
8	MW-19-1	1802744-08	Water	01/24/18
9	MW-26-2	1802744-09	Water	01/24/18
10	DUP-2-1Q18	1802744-10	Water	01/24/18
11	MW-26-1	1802744-11	Water	01/24/18
12	EB-2-012418	1802744-12	Water	01/24/18
13	MW-14-3MS	1802744-04MS	Water	01/24/18

LDC #: 41286B1
SDG #: 18-02744
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 03/15/18
Page: 7 of 7
Reviewer: JY
2nd Reviewer: JY

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-14-3MSD	1802744-04MSD	Water	01/24/18
15				
16				
17				
18				
19				

Notes:

-	B002992 - Blank					

LDC #: 41286 B1

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: [Signature]**Method:** Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	/			
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) \leq 20%?	/			
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) $<$ 30%?		/		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	/			
Were all percent differences (%D) of continuing calibration $<$ 30%?		/		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed with each analysis batch?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

LDC #: 41286 B)

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: JVG
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) within 70-130%?	/			
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	/			
Were retention times within +/-30 seconds of the associated calibration standard?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. <i>Methyl iodide</i>	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 41286 B1

VALIDATION FINDINGS WORKSHEET Initial Calibration Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤30 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	01/23/18	23 Jan 32	ZZZZ	49.1	All (ND)	J/WJ P

LDC #: 41286 B1

VALIDATION FINDINGS WORKSHEET Continuing Calibration

METHOD: GC/MS VOA (EPA Method 524.2)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y N N/A Were all percent differences (%D) \leq 30% ?

#	Date	Standard ID	Compound	Finding %D (Limit: \leq 30.0%)	Associated Samples	Qualifications
	<u>01/26/18</u>	<u>26 Jan 03</u>	<u>B</u>	<u>67.1</u>	<u>All (NB)</u> ↓ ↓ ↓ ↓	<u>J/US/A</u> ↓
		<u>26 Jan 04</u>	<u>YYYY</u>	<u>43.8</u>		
			<u>YL</u>	<u>57.6</u>		
			<u>ZZZZ</u>	<u>39.9</u>		

LDC #: 41286 B1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: JVG
 2nd reviewer:

METHOD: GC/MS VOA (EPA Method 524.2)


Y N N/A
 Y N N/A

Were field duplicate pairs identified in this SDG?
 Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ %)
	9	10	
K	2.0	1.4	35
QQQ	0.32	0.274	200
AA	2.7	2.3	16
S	0.44	0.19	79

LDC #: 41286B1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: JVG
 2nd Reviewer: 

METHOD: GC/MS VOA (EPA Method 524.2)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	01/25/18	Chloroform (IS1)	0.746679	0.746679	0.780421	0.780421	3.189	3.189
			Trichloroethene (IS2)	0.328367	0.328367	0.352892	0.352892	10.236	10.236
			Ethylbenzene (IS3)	1.822044	1.822044	1.736881	1.736881	6.508	6.508

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$
$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	26JAN03 MS V5	01/26/18	Chloroform (IS1)	0.780421	0.837176	0.837176	7.3	7.3
			Trichloroethene (IS2)	0.352892	0.355334	0.355334	0.7	0.7
			Ethylbenzene (IS3)	1.736881	1.864476	1.864476	7.3	7.3

LDC #: 41286 B1

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 5

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.88	98.8	98.8	0
Bromofluorobenzene	↓	10 9.58	95.8	95.8	↓
1,2-Dichlorobenzene-d4	↓	10.03	100	100	↓
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

LDC #: 41286 B1

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: JWG
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = $| MSC - MSDC | * 2 / (MSC + MSDC)$

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 13/14

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	27.14	26.22	109	109	105	105	3.45	3.45
Trichloroethene	↓	↓	2.12	25.01	26.33	91.6	91.6	96.8	96.8	5.14	5.14
Benzene	↓	↓	0	26.22	25.72	105	105	103	103	1.93	1.93
Toluene	↓	↓	↓	25.21	24.67	101	101	98.7	98.7	2.17	2.17
Chlorobenzene	↓	↓	↓	24.53	26.42	99.3	99.3	106	106	6.20	6.20

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41 286 B)

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: B002992 - BS 1

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	26.60	NA	166	106				
Trichloroethene	↓	↓	23.69	↓	94.8	94.8				
Benzene	↓	↓	25.51	↓	102	102				
Toluene	↓	↓	24.80	↓	99.2	99.2				
Chlorobenzene	↓	↓	22.75	↓	91.0	91.0				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

Compound results reported with a positive detect were recalculated and verified using the following equation:

- Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$
- A_x = Area of the characteristic ion (EICP) for the compound to be measured
 - A_{is} = Area of the characteristic ion (EICP) for the specific internal standard
 - I_s = Amount of internal standard added in nanograms (ng)
 - RRF = Relative response factor of the calibration standard.
 - V_o = Volume or weight of sample purged in milliliters (ml) or grams (g).
 - Df = Dilution factor.
 - %S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 5, TCE

Conc. = $\frac{(15633)(10)}{(310625)(0.952592)} = 1.4 \mu\text{g/L}$

#	Sample ID	Compound	Reported Concentration ($\mu\text{g/L}$)	Calculated Concentration ()	Acceptable (Y/N)
			1.4		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02744

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-3	1802744-04	Water	01/24/18
MW-14-2**	1802744-05**	Water	01/24/18
MW-14-1	1802744-06	Water	01/24/18
MW-26-2	1802744-09	Water	01/24/18
DUP-2-1Q18	1802744-10	Water	01/24/18
MW-26-1	1802744-11	Water	01/24/18
EB-2-012418	1802744-12	Water	01/24/18
MW-14-3MS	1802744-04MS	Water	01/24/18
MW-14-3MSD	1802744-04MSD	Water	01/24/18
MW-14-3DUP	1802744-04DUP	Water	01/24/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	1.0360 ug/L	All samples in SDG 18-02744

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-14-3	Chromium	1.4 ug/L	1.4U ug/L
MW-14-2**	Chromium	1.4 ug/L	1.4U ug/L
MW-14-1	Chromium	1.7 ug/L	1.7U ug/L
MW-26-2	Chromium	2.1 ug/L	2.1U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
DUP-2-1Q18	Chromium	2.0 ug/L	2.0U ug/L
MW-26-1	Chromium	1.6 ug/L	1.6U ug/L
EB-2-012418	Chromium	1.2 ug/L	1.2U ug/L

VI. Field Blanks

Sample EB-2-012418 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-2-012418	Chromium	1.2

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples MW-26-2 and DUP-2-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-26-2	DUP-2-1Q18	
Chromium	2.1	2.0	5

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-02744

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-02744

Sample	Analyte	Modified Final Concentration	A or P
MW-14-3	Chromium	1.4U ug/L	A
MW-14-2**	Chromium	1.4U ug/L	A
MW-14-1	Chromium	1.7U ug/L	A
MW-26-2	Chromium	2.1U ug/L	A
DUP-2-1Q18	Chromium	2.0U ug/L	A
MW-26-1	Chromium	1.6U ug/L	A
EB-2-012418	Chromium	1.2U ug/L	A

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	Not Required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = 7
VII.	Matrix Spike/Matrix Spike Duplicates	A	8.9
VIII.	Duplicate sample analysis	A	10
IX.	Serial Dilution	N	Not Performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(4.5)
XII.	Internal Standard (ICP-MS)	A	Not Reviewed for Level III
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-14-3	1802744-04	Water	01/24/18
2	MW-14-2**	1802744-05**	Water	01/24/18
3	MW-14-1	1802744-06	Water	01/24/18
4	MW-26-2	1802744-09	Water	01/24/18
5	DUP-2-1Q18	1802744-10	Water	01/24/18
6	MW-26-1	1802744-11	Water	01/24/18
7	EB-2-012418	1802744-12	Water	01/24/18
8	MW-14-3MS	1802744-04MS	Water	01/24/18
9	MW-14-3MSD	1802744-04MSD	Water	01/24/18
10	MW-14-3DUP	1802744-04DUP	Water	01/24/18
11				
12				
13				

Notes: _____

Method: Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?			✓	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?			✓	
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

LDC #: 41286B4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: JB
2nd Reviewer: [Signature]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/l)	Maximum ICB/CCB ^a (mg/l)	Action Level	1	2	3	4	5	6	7		
Cr		1.0360		5.18	1.4	1.4	1.7	2.1	2.0	1.6	1.2		

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 4128464a
SDG #: 18-02744

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: YB
2nd reviewer: R

METHOD: Trace Metals (EPA CLP SOW ILM02.1)

N N/A Were field blanks identified in this SDG?
 N N/A Were target analytes detected in the field blanks?

Sample: 7 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (ug/L)
Cr	1.2

Sample: _____ Field Blank / Trip Blank / Rinsate / Other _____ (circle one)

Analyte	Concentration Units ()

LDC#: 41286B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JS
2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6020A/7000)

Analyte	Concentration (ug/L)		RPD	
	4	5		
Chromium	2.1	2.0	5	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286B4a.wpd

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration)	Cr	50.442 ug/L	50.000 ug/L	1017.	1017.	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV _y	ICP/MS (Continuing calibration) 7:29	Cr	41.608 ug/L	40.000 ug/L	1047.	1047.	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated / Found %RSD / X%	Acceptable (Y/N)
	Mass Axis	23.985	23.925	± 0.1 AMU	NA	Y
	%RSD	208.0	128934.997	≤ 5% RSD	1.27. RSD	Y

Comments:

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
 Found = SSR (spiked sample result) - SR (sample result).
 True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
 D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$
 Where, I = Initial Sample Result (mg/L)
 SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample	Cr	42.462 ug/L	40.000 ug/L	106.70	106.7	Y
MS	Matrix spike	Cr	1.413 (SSR-SR) 40.912 - SR = 39.499 ug/L	40.000 ug/L	98.77	98.77	Y
MSD	Duplicate	Cr	38.855 ug/L	Found 40.912 ug/L	5.16 RPD	5.16 RPD	Y
PS	Post digestion spike	Cr	39.553 - SR = 38.163 ug/L	SR 1.3847 SA 40.000 ug/L	95.47	95.47	Y
	ICP serial dilution						

Comments: _____

LDC #: Hot 4129684c
SDG #: 18-02744

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JB
2nd reviewer:

METHOD: Trace metals (EPA CLP SOW ILM02.1)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Cr were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(\text{RD})(\text{FV})(\text{Dil})}{(\text{In. Vol.})}$$

Recalculation:

- RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Cr from Raw Data = 1.351 ug/L

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	<u>2</u>	<u>Cr</u>	<u>1.4</u>	<u>1.4</u>	<u>Y</u>

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02744

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-5	1802744-02	Water	01/24/18
MW-14-4	1802744-03	Water	01/24/18
MW-14-3	1802744-04	Water	01/24/18
MW-14-2**	1802744-05**	Water	01/24/18
MW-14-1	1802744-06	Water	01/24/18
MW-19-2	1802744-07	Water	01/24/18
MW-19-1	1802744-08	Water	01/24/18
MW-26-2	1802744-09	Water	01/24/18
DUP-2-1Q18	1802744-10	Water	01/24/18
MW-26-1	1802744-11	Water	01/24/18
EB-2-012418	1802744-12	Water	01/24/18
MW-14-3MS	1802744-04MS	Water	01/24/18
MW-14-3MSD	1802744-04MSD	Water	01/24/18
MW-14-3DUP	1802744-04DUP	Water	01/24/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method 7196

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-2-012418 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-26-2 and DUP-2-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-26-2	DUP-2-1Q18	
Perchlorate	3.2 ug/L	3.0 ug/L	6
Hexavalent chromium	0.00070 mg/L	0.00076 mg/L	8

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-02744

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-02744

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB = 11
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12, 13)
VII.	Duplicate sample analysis	A	14
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(8, 9)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-14-5	1802744-02	Water	01/24/18
2	MW-14-4	1802744-03	Water	01/24/18
3	MW-14-3	1802744-04	Water	01/24/18
4	MW-14-2**	1802744-05**	Water	01/24/18
5	MW-14-1	1802744-06	Water	01/24/18
6	MW-19-2	1802744-07	Water	01/24/18
7	MW-19-1	1802744-08	Water	01/24/18
8	MW-26-2	1802744-09	Water	01/24/18
9	DUP-2-1Q18	1802744-10	Water	01/24/18
10	MW-26-1	1802744-11	Water	01/24/18
11	EB-2-012418	1802744-12	Water	01/24/18
12	MW-14-3MS	1802744-04MS	Water	01/24/18
13	MW-14-3MSD	1802744-04MSD	Water	01/24/18
14	MW-14-3DUP	1802744-04DUP	Water	01/24/18
15				
16				
17				

LDC #: 41286B6
SDG #: 18-02744
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 3/8/18
Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18				
19				

Notes:

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?				

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
Were detection limits < RL?	/			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target analytes were detected in the field duplicates.	/			
X. Field blanks				
Field blanks were identified in this SDG.		/		
Target analytes were detected in the field blanks.			/	

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-11	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
3-5, 8-11	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
0c	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
12-14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

LDC# 41286B6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: VB
2nd Reviewer: Q

Inorganics: Method See Cover

Analyte	Concentration		RPD	
	8	9		
Perchlorate (ug/L)	3.2	3.0	6	
Hexavalent Chromium (mg/L)	0.00070	0.00076	8	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286B6.wpd

LDC #: 41286B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr⁶⁺ was recalculated. Calibration date: 12/26/17

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr ⁶⁺	s1	0	0	0.999808	0.999815	Y
		s2	0.002	0.00153			
		s3	0.005	0.00365			
		s4	0.025	0.01809			
		s5	0.05	0.03509			
		s6	0.1	0.06882			
Calibration verification	Cr ⁶⁺	ICV	<u>Found:</u> 9.427ug/L	<u>True:</u> 10.000ug/L	94.3%	92.8%	Y
Calibration verification	Cr ⁶⁺	CCV	<u>Found:</u> 0.0518mg/L	<u>True:</u> 0.05000mg/L	104%	104%	Y
Calibration verification							

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 4128636

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
 Reviewer: JB
 2nd Reviewer: [Signature]

METHOD: Inorganics, Method See Cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
 True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
 D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample	Cr ⁶⁺	0.0504 mg/L	0.050000 mg/L	101%	102%	Y
MS	Matrix spike sample	C10 ₄ ⁻	5.8273 (SSR-SR) (15.079) 14.929 - 5.8273 = 9.1017 ug/L (9.252)	10.101 ug/L	90.17% (91.67%)	91.97%	Y
MSD	Duplicate sample	C10 ₄ ⁻	20.428 ug/L 15.872 ug/L	Found: 14.929 ug/L (15.079)	5.127% RPD	3.647% RPD	Y

Comments: _____

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

METHOD: Inorganics, Method See Cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
- Y N N/A Are results within the calibrated range of the instruments?
- Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for C104 reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation:

$$y = mx + b$$
$$y = 0.006$$
$$m = 0.0012728$$
$$b = -2.003E-4$$

$$C_{104} = \frac{0.006 - 2.003E-4}{0.0012728}$$
$$= 4.71559 \text{ ug/L}$$

#	Sample ID	Analyte	Reported Concentration ()	Calculated Concentration ()	Acceptable (Y/N)
	<u>4</u>	<u>C104</u>	<u>4.9 ug/L</u>	<u>4.7 ug/L</u>	<u>Y</u>
		<u>Cr6+</u>	<u>0.00090 mg/L</u>	<u>0.001 mg/L</u>	<u>Y</u>

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 15, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02838

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-3-012518	1802838-01	Water	01/25/18
MW-17-4	1802838-02	Water	01/25/18
Dup-3-1Q18	1802838-03	Water	01/25/18
MW-17-3	1802838-04	Water	01/25/18
MW-17-2**	1802838-05**	Water	01/25/18
MW-3-4	1802838-06	Water	01/25/18
MW-3-3	1802838-07	Water	01/25/18
MW-3-2	1802838-08	Water	01/25/18
MW-18-5	1802838-09	Water	01/25/18
MW-18-4	1802838-10	Water	01/25/18
MW-18-3	1802838-11	Water	01/25/18
MW-18-2	1802838-12	Water	01/25/18
EB-3-012518	1802838-13	Water	01/25/18
MW-18-3MS	1802838-11MS	Water	01/25/18
MW-18-3MSD	1802838-11MSD	Water	01/25/18

**Indicates sample underwent Level IV review

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV evaluation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
01/23/18	Pentachloroethane	49.1	All samples in SDG 18-02838	UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
01/29/18	Benzene	33.0	All samples in SDG 18-02838	J (all detects) UJ (all non-detects)	A
01/29/18	Methyl iodide Pentachloroethane	34.0 41.2	All samples in SDG 18-02838	UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-3-012518 was identified as a trip blank. No contaminants were found.

Sample EB-3-012518 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Compound	Concentration (ug/L)
EB-3-012518	Benzene	0.14
	Toluene	0.72
	m,p-Xylene	0.38
	o-Xylene	0.20

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples MW-17-4 and Dup-3-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-17-4	Dup-3-1Q18	
Chloroform	0.60	0.40	40
Tetrachloroethene	0.47	0.29	47
Trichloroethene	0.81	0.51	45

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to ICV %D and continuing calibration %D, data were qualified as estimated in thirteen samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-02838

Sample	Compound	Flag	A or P	Reason
TB-3-012518 MW-17-4 Dup-3-1Q18 MW-17-3 MW-17-2** MW-3-4 MW-3-3 MW-3-2 MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-3-012518	Pentachloroethane	UJ (all non-detects)	A	Initial calibration verification (%D)
TB-3-012518 MW-17-4 Dup-3-1Q18 MW-17-3 MW-17-2** MW-3-4 MW-3-3 MW-3-2 MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-3-012518	Benzene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
TB-3-012518 MW-17-4 Dup-3-1Q18 MW-17-3 MW-17-2** MW-3-4 MW-3-3 MW-3-2 MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-3-012518	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-02838

No Sample Data Qualified in this SDG

LDC #: 41286C1

VALIDATION COMPLETENESS WORKSHEET

Date: 03/15/18

SDG #: 18-02838

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JG

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	ICAL \leq 20% ICV \leq 30%
IV.	Continuing calibration	SW	
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	* TB = 1 EB = 13
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	*A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 2/3
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

*ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-3-012518	1802838-01	Water	01/25/18
2 ⁺	MW-17-4	1802838-02	Water	01/25/18
3 ⁺	Dup-3-1Q18	1802838-03	Water	01/25/18
4 ⁺	MW-17-3	1802838-04	Water	01/25/18
5	MW-17-2**	1802838-05**	Water	01/25/18
6 ⁺	MW-3-4	1802838-06	Water	01/25/18
7	MW-3-3	1802838-07	Water	01/25/18
8 ⁺	MW-3-2	1802838-08	Water	01/25/18
9	MW-18-5	1802838-09	Water	01/25/18
10 ⁺	MW-18-4	1802838-10	Water	01/25/18
11 ⁺	MW-18-3	1802838-11	Water	01/25/18
12	MW-18-2	1802838-12	Water	01/25/18
13 ⁺	EB-3-012518	1802838-13	Water	01/25/18

LDC #: 41286C1
SDG #: 18-02838
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 03/15/18
Page: 2 of 2
Reviewer: JF
2nd Reviewer: JF

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-18-3MS	1802838-11MS	Water	01/25/18
15	MW-18-3MSD	1802838-11MSD	Water	01/25/18
16				
17				
18				
19				
20				

Notes:

✓	B003165 - Blk 1								

LDC #: 41286C1

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: JVG
 2nd Reviewer: [Signature]

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 30%?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) of continuing calibration < 30%?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a laboratory blank analyzed with each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LDC #: 41286 C1

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: JWG
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) within 70-130%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within +/-30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. Methyl iodide	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 41286 C1

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A Were field blanks identified in this SDG?
 Y N N/A Were target compounds detected in the field blanks?

Sample: 13 Field Blank / Trip Blank / Rinsate / Equipment Blank (circle one)

Compound	Concentration Units (ug/L)
<u>✓</u>	<u>0.14</u>
<u>CC</u>	<u>0.72</u>
<u>RRR</u>	<u>0.38</u>
<u>SSS</u>	<u>0.20</u>

Sample: _____ Field Blank / Trip Blank / Rinsate / Equipment Blank (circle one)

Compound	Concentration Units (ug/L)

Sample: _____ Field Blank / Trip Blank / Rinsate / Equipment Blank (circle one)

Compound	Concentration Units (ug/L)

LDC #: 41286 C1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: JVG
 2nd reviewer:

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A
 Y N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (s %)
	2	3	
K	0.60	0.40	40
AA	0.47	0.29	47
S	0.81	0.51	45

LDC #: 41286C1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: JVG
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	01/25/18	Chloroform (IS1)	0.746679	0.746679	0.780421	0.780421	3.189	3.189
			Trichloroethene (IS2)	0.328367	0.328367	0.352892	0.352892	10.236	10.236
			Ethylbenzene (IS3)	1.822044	1.822044	1.736881	1.736881	6.508	6.508

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	29JAN03 MS V5	01/29/18	Chloroform (IS1)	0.780421	0.820351	0.820351	5.1	5.1
			Trichloroethene (IS2)	0.352892	0.359168	0.359168	1.8	1.8
			Ethylbenzene (IS3)	1.736881	1.755702	1.755702	1.1	1.1

LDC #: 41286 C1

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer:

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 5

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	10.30	103	103	9
Bromofluorobenzene	↓	9.79	97.9	97.9	↓
1,2-Dichlorobenzene-d4	↓	11.54	115	115	↓
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

LDC #: 41286 C1

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: JVG

2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

RPD = | MSC - MSDC | * 2 / (MSC + MSDC)

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 14/15

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	26.78	27.09	107	107	108	108	1.15	1.15
Trichloroethene	↓	↓	↓	26.67	26.61	106	104	98.4	98.4	7.85	7.85
Benzene	↓	↓	↓	24.71	25.30	98.8	98.8	101	101	2.36	2.36
Toluene	↓	↓	↓	25.87	24.7	103	103	98.8	98.8	4.63	4.63
Chlorobenzene	↓	↓	↓	25.76	25.25	103	103	101	101	2.0	2.0

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41 286 C1

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JWG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: B003165-051

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	27.890	NA	110	110				
Trichloroethene	↓	↓	29.97	↓	99.9	99.9				
Benzene	↓	↓	26.18	↓	105	105				
Toluene	↓	↓	25.26	↓	101	101				
Chlorobenzene	↓	↓	24.58	↓	98.3	98.3				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02838

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-17-4	1802838-02	Water	01/25/18
Dup-3-1Q18	1802838-03	Water	01/25/18
MW-17-3	1802838-04	Water	01/25/18
MW-17-2**	1802838-05**	Water	01/25/18
MW-3-4	1802838-06	Water	01/25/18
MW-3-3	1802838-07	Water	01/25/18
MW-3-2	1802838-08	Water	01/25/18
MW-18-4	1802838-10	Water	01/25/18
MW-18-3	1802838-11	Water	01/25/18
MW-18-2	1802838-12	Water	01/25/18
EB-3-012518	1802838-13	Water	01/25/18
MW-18-3MS	1802838-11MS	Water	01/25/18
MW-18-3MSD	1802838-11MSD	Water	01/25/18
MW-18-3DUP	1802838-11DUP	Water	01/25/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample EB-3-012518 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-3-012518	Chromium	0.86

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples MW-17-4 and Dup-3-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-17-4	Dup-3-1Q18	
Chromium	1.7	1.8	6

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-02838

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-02838

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	Not Required
V.	Laboratory Blanks	A	
VI.	Field Blanks	SW	EB = 11
VII.	Matrix Spike/Matrix Spike Duplicates	A	(12, 13)
VIII.	Duplicate sample analysis	A	14
IX.	Serial Dilution	A	Result < RL
XI.	Laboratory control samples	A	LOS
XI.	Field Duplicates	SW	(1, 2)
XII.	Internal Standard (ICP-MS)	A	Not Reviewed for level III
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank
 SB=Source blank
 OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-17-4	1802838-02	Water	01/25/18
2	Dup-3-1Q18	1802838-03	Water	01/25/18
3	MW-17-3	1802838-04	Water	01/25/18
4	MW-17-2**	1802838-05**	Water	01/25/18
5	MW-3-4	1802838-06	Water	01/25/18
6	MW-3-3	1802838-07	Water	01/25/18
7	MW-3-2	1802838-08	Water	01/25/18
8	MW-18-4	1802838-10	Water	01/25/18
9	MW-18-3	1802838-11	Water	01/25/18
10	MW-18-2	1802838-12	Water	01/25/18
11	EB-3-012518	1802838-13	Water	01/25/18
12	MW-18-3MS	1802838-11MS	Water	01/25/18
13	MW-18-3MSD	1802838-11MSD	Water	01/25/18
14	MW-18-3DUP	1802838-11DUP	Water	01/25/18
15				

LDC #: 41286C4a

VALIDATION COMPLETENESS WORKSHEET

Date: 3/3/18

SDG #: 18-02838

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16				
17				
18				
19				

Notes: _____

Method: Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?			✓	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?			✓	
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

LDC#: 41286C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JS
2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6020A/7000)

Analyte	Concentration (ug/L)		RPD	
	1	2		
Chromium	1.7	1.8	6	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286C4a.wpd

VALIDATION FINDINGS WORKSHEET

Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
 Found = SSR (spiked sample result) - SR (sample result).
 True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
 D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
 SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 3305-BS1	Cr	43.293 ug/L	40.000 ug/L	108%	108%	Y
MS	Matrix spike	Cr	2.144 (SSR-SR) 40.673 ug/L - SR = 38.529 ug/L	40.000 ug/L	96.37%	96.37%	Y
MSD	Duplicate	Cr	40.211 ug/L	Found: 40.473 40.211 ug/L	1.147% RPD	1.147% RPD	Y
PS	Post digestion spike	Cr	40.130 - SR = 38.0289 ug/L	SR = 2.1011 SA = 40.000	95.17%	95.17%	Y
	ICP serial dilution						

Comments: SD - NR + RL

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration)	Cr	53.357 ug/L	50.000 ug/L	107%	107%	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV _u	ICP/MS (Continuing calibration)	Cr	39.352 ug/L	40.000 ug/L	99.17%	99.17%	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated / Found %RSD / X%	Acceptable (Y/N)
	Mass Axis	102.905	102.879	± 0.1 AMU	NA	Y
	%RSD	24.0	16199.601	≤ 5% RSD	0.97% RSD	Y

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02838

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-17-4	1802838-02	Water	01/25/18
Dup-3-1Q18	1802838-03	Water	01/25/18
MW-17-3	1802838-04	Water	01/25/18
MW-17-2**	1802838-05**	Water	01/25/18
MW-3-4	1802838-06	Water	01/25/18
MW-3-3	1802838-07	Water	01/25/18
MW-3-2	1802838-08	Water	01/25/18
MW-18-5	1802838-09	Water	01/25/18
MW-18-4	1802838-10	Water	01/25/18
MW-18-3	1802838-11	Water	01/25/18
MW-18-2	1802838-12	Water	01/25/18
EB-3-012518	1802838-13	Water	01/25/18
MW-17-4MS	1802838-02MS	Water	01/25/18
MW-17-4MSD	1802838-02MSD	Water	01/25/18
MW-17-4DUP	1802838-02DUP	Water	01/25/18
MW-17-2MS	1802838-05MS	Water	01/25/18
MW-17-2MSD	1802838-05MSD	Water	01/25/18
MW-17-2DUP	1802838-05DUP	Water	01/25/18
MW-18-3MS	1802838-11MS	Water	01/25/18
MW-18-3MSD	1802838-11MSD	Water	01/25/18
MW-18-3DUP	1802838-11DUP	Water	01/25/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method 7196

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-3-012518 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-17-4 and Dup-3-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-17-4	Dup-3-1Q18	
Perchlorate	4.9	4.0	20

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-02838

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-02838

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB=12
VI.	Matrix Spike/Matrix Spike Duplicates	A	
VII.	Duplicate sample analysis	A	15 - (104) <i>etc</i> by difference, 18, 21
VIII.	Laboratory control samples	A	LC5
IX.	Field duplicates	SW	(1,2)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank
 SB=Source blank
 OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-17-4	1802838-02	Water	01/25/18
2	Dup-3-1Q18	1802838-03	Water	01/25/18
3	MW-17-3	1802838-04	Water	01/25/18
4	MW-17-2**	1802838-05**	Water	01/25/18
5	MW-3-4	1802838-06	Water	01/25/18
6	MW-3-3	1802838-07	Water	01/25/18
7	MW-3-2	1802838-08	Water	01/25/18
8	MW-18-5	1802838-09	Water	01/25/18
9	MW-18-4	1802838-10	Water	01/25/18
10	MW-18-3	1802838-11	Water	01/25/18
11	MW-18-2	1802838-12	Water	01/25/18
12	EB-3-012518	1802838-13	Water	01/25/18
13	MW-17-4MS	1802838-02MS	Water	01/25/18
14	MW-17-4MSD	1802838-02MSD	Water	01/25/18
15	MW-17-4DUP	1802838-02DUP	Water	01/25/18
16	MW-17-2MS	1802838-05MS	Water	01/25/18
17	MW-17-2MSD	1802838-05MSD	Water	01/25/18

LDC #: 41286C6
SDG #: 18-02838
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 3/8/18
Page: 2 of 2
Reviewer: JB
2nd Reviewer: [Signature]

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18	MW-17-2DUP	1802838-05DUP	Water	01/25/18
19	MW-18-3MS †	1802838-11MS	Water	01/25/18
20	MW-18-3MSD	1802838-11MSD	Water	01/25/18
21	MW-18-3DUP	1802838-11DUP	Water	01/25/18
22				
23				
24				
25				
26				

Notes: _____

Method: Inorganics (EPA Method See (over))

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995 ?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\leq \text{CRDL}$ ($\leq 2\text{X CRDL}$ for soil) was used for samples that were $\leq 5\text{X}$ the CRDL, including when only one of the duplicate sample values were $\leq 5\text{X}$ the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

LDC# 41286C6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JB
2nd Reviewer: Q

Inorganics: Method See Cover

Analyte	Concentration		RPD	
	1	2		
Perchlorate (ug/L)	4.9	4.0	20	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286C6.wpd

LDC #: 4128606

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: VS
 2nd Reviewer: [Signature]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr⁶⁺ was recalculated. Calibration date: 12/26/17

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where,

Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr ⁶⁺	s1	0	0	0.999808	0.999815	Y
		s2	0.002	0.00153			
		s3	0.005	0.00365			
		s4	0.025	0.01809			
		s5	0.05	0.03509			
		s6	0.1	0.06882			
Calibration verification	CrO ₄	ICV	Found: 9.4294 ug/L	True: 10.0000 ug/L	94.3%	97.1%	Y
Calibration verification	Cr ⁶⁺	CCV ₂	Found: 0.0504 mg/L	True: 0.050000 mg/L	101%	102%	Y
Calibration verification							

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Inorganics, Method See Cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample 3094-B51	Cr ⁶⁺	0.0533 mg/L	0.05000 mg/L	1077.	1077.	Y
MS	Matrix spike sample MW-18-3	ClO ₄ ⁻	3.9333 (SSR-SR) 12.8878 - 3.9333 = 8.9545 ug/L	10.10 ug/L	88.67.	92.27.	Y
MSD	Duplicate sample	ClO ₄	12.8878 ug/L	Found: 12.8878 ug/L	0 RPD	0.1677 RPD	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 15, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02960

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-4-012618	1802960-01	Water	01/26/18
MW-22-3	1802960-02	Water	01/26/18
MW-22-2	1802960-03	Water	01/26/18
MW-22-1	1802960-04	Water	01/26/18
Dup-4-1Q18	1802960-05	Water	01/26/18
MW-24-3	1802960-07	Water	01/26/18
MW-24-2	1802960-08	Water	01/26/18
MW-24-1**	1802960-09**	Water	01/26/18
EB-4-012618	1802960-10	Water	01/26/18
MW-22-2MS	1802960-03MS	Water	01/26/18
MW-22-2MSD	1802960-03MSD	Water	01/26/18

**Indicates sample underwent Level IV review

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV evaluation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/02/18	Methyl iodide	38.8	All samples in SDG 18-02960	UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-4-012618 was identified as a trip blank. No contaminants were found.

Sample EB-4-012618 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples MW-22-1 and Dup-4-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-22-1	Dup-4-1Q18	
Chloroform	0.26	0.25	4
Trichloroethene	0.54	0.60	11

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, data were qualified as estimated in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-02960

Sample	Compound	Flag	A or P	Reason
TB-4-012618 MW-22-3 MW-22-2 MW-22-1 Dup-4-1Q18 MW-24-3 MW-24-2 MW-24-1** EB-4-012618	Methyl iodide	UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-02960

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	ICAL = 20% r ² 100% = 30%
IV.	Continuing calibration	SW	CV = 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 9
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	*A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 4/5
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-4-012618	1802960-01	Water	01/26/18
2	MW-22-3	1802960-02	Water	01/26/18
3	MW-22-2	1802960-03	Water	01/26/18
4	MW-22-1	1802960-04	Water	01/26/18
5	Dup-4-1Q18	1802960-05	Water	01/26/18
6	MW-24-3	1802960-07	Water	01/26/18
7	MW-24-2	1802960-08	Water	01/26/18
8	MW-24-1**	1802960-09**	Water	01/26/18
9	EB-4-012618	1802960-10	Water	01/26/18
10	MW-22-2MS	1802960-03MS	Water	01/26/18
11	MW-22-2MSD	1802960-03MSD	Water	01/26/18
12				
13	8003771- BIK 1			

LDC #: 41286 D1

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: [Signature]**Method:** Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	/			
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) < 30%?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	/			
Were all percent differences (%D) of continuing calibration < 30%?		/		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed with each analysis batch?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

LDC #: 41286 D1

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JYG
2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) within 70-130%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within +/-30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. Methyl iodide	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 41286 D1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd reviewer:

METHOD: GC/MS VOA (EPA Method 524.2)


Y N N/A
 Y N N/A

Were field duplicate pairs identified in this SDG?
Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ %)
	4	5	
K	0.26	0.25	4
S	0.54	0.60	11

LDC #: 41286D1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: JVG
 2nd Reviewer: 

METHOD: GC/MS VOA (EPA Method 524.2)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

A_x = Area of Compound

C_x = Concentration of compound,

S= Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	02/01/18	Chloroform (IS1)	0.648985	0.648985	0.663226	0.663226	3.990	3.990
			Trichloroethene (IS2)	0.343841	0.343840	0.344549	0.344549	3.878	3.878
			Ethylbenzene (IS3)	1.786843	1.786843	1.808711	1.808711	9.621	9.621

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$
$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	02FEB31 MS V5	02/02/18	Chloroform (IS1)	0.663226	0.676967	0.676967	2.1	2.1
			Trichloroethene (IS2)	0.344549	0.337225	0.337225	2.1	2.1
			Ethylbenzene (IS3)	1.808711	1.717126	1.717126	5.1	5.1

LDC #: 41286 b1

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 8

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.82	98.2	98.2	9
Bromofluorobenzene	↓	10.07	101	101	↓
1,2-Dichlorobenzene-d4	↓	11.23	112	112	↓
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = $|MSC - MSDC| * 2 / (MSC + MSDC)$

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 10/11

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	26.35	24.87	105	105	99.5	99.5	5.78	5.78
Trichloroethene	↓	↓	↓	24.71	25.31	98.8	98.8	101	101	2.40	2.40
Benzene	↓	↓	↓	25.74	24.49	102	103	98.0	98.0	4.98	4.98
Toluene	↓	↓	↓	24.72	24.33	98.9	98.9	97.3	97.3	1.63	1.63
Chlorobenzene	↓	↓	↓	25.06	24.87	100	100	99.3	99.5	0.962	0.96

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41286 b1

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
SA = Spike added

$RPD = |LCS - LCSD| * 2 / (LCS + LCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 300377-BS4

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	25.0	NA	104	104				
Trichloroethene			26.50		106	106				
Benzene			24.73		98.9	98.9				
Toluene			24.50		98.0	98.0				
Chlorobenzene			23.53		94.1	94.1				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02960

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-3	1802960-02	Water	01/26/18
MW-22-2	1802960-03	Water	01/26/18
MW-22-1	1802960-04	Water	01/26/18
Dup-4-1Q18	1802960-05	Water	01/26/18
MW-24-4	1802960-06	Water	01/26/18
MW-24-3	1802960-07	Water	01/26/18
MW-24-2	1802960-08	Water	01/26/18
MW-24-1**	1802960-09**	Water	01/26/18
EB-4-012618	1802960-10	Water	01/26/18
MW-24-4MS	1802960-06MS	Water	01/26/18
MW-24-4MSD	1802960-06MSD	Water	01/26/18
MW-24-4DUP	1802960-06DUP	Water	01/26/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	1.2670 ug/L	All samples in SDG 18-02960

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-22-3	Chromium	3.6 ug/L	3.6U ug/L
MW-22-2	Chromium	2.6 ug/L	2.6U ug/L
MW-22-1	Chromium	1.5 ug/L	1.5U ug/L
Dup-4-1Q18	Chromium	1.6 ug/L	1.6U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-24-4	Chromium	0.89 ug/L	0.89U ug/L
MW-24-3	Chromium	1.0 ug/L	1.0U ug/L
MW-24-2	Chromium	2.1 ug/L	2.1U ug/L
MW-24-1**	Chromium	3.6 ug/L	3.6U ug/L
EB-4-012618	Chromium	1.0 ug/L	1.0U ug/L

VI. Field Blanks

Sample EB-4-012618 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-4-012618	Chromium	1.0

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples MW-22-1 and Dup-4-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-22-1	Dup-4-1Q18	
Chromium	1.5	1.6	6

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

**NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-02960**

No Sample Data Qualified in this SDG

**NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-02960**

Sample	Analyte	Modified Final Concentration	A or P
MW-22-3	Chromium	3.6U ug/L	A
MW-22-2	Chromium	2.6U ug/L	A
MW-22-1	Chromium	1.5U ug/L	A
Dup-4-1Q18	Chromium	1.6U ug/L	A
MW-24-4	Chromium	0.89U ug/L	A
MW-24-3	Chromium	1.0U ug/L	A
MW-24-2	Chromium	2.1U ug/L	A
MW-24-1**	Chromium	3.6U ug/L	A
EB-4-012618	Chromium	1.0U ug/L	A

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	Not Required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB=9
VII.	Matrix Spike/Matrix Spike Duplicates	A	10, 11
VIII.	Duplicate sample analysis	A	12
IX.	Serial Dilution	A	Result < RL
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(3,4)
XII.	Internal Standard (ICP-MS)	A	Not Reviewed for level III
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-22-3	1802960-02	Water	01/26/18
2	MW-22-2	1802960-03	Water	01/26/18
3	MW-22-1	1802960-04	Water	01/26/18
4	Dup-4-1Q18	1802960-05	Water	01/26/18
5	MW-24-4	1802960-06	Water	01/26/18
6	MW-24-3	1802960-07	Water	01/26/18
7	MW-24-2	1802960-08	Water	01/26/18
8	MW-24-1**	1802960-09**	Water	01/26/18
9	EB-4-012618	1802960-10	Water	01/26/18
10	MW-24-4MS	1802960-06MS	Water	01/26/18
11	MW-24-4MSD	1802960-06MSD	Water	01/26/18
12	MW-24-4DUP	1802960-06DUP	Water	01/26/18
13				
14				

Notes:

Method: Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?			✓	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?			✓	
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

LDC #: 41286D4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: JB
2nd Reviewer: [Signature]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (mg/l)	Action Level	1	2	3	4	5	6	7	8	9
Cr		1.2670		6.335	3.6	2.6	1.5	1.6	0.89	1.0	2.1	3.6	1.0

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC#: 41286D4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JB
2nd Reviewer: JB

METHOD: Metals (EPA Method 6020A/7000)

Analyte	Concentration (ug/L)		RPD	
	3	4		
Chromium	1.5	1.6	6	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286D4a.wpd

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration)	Cr	50.578 ug/L	50.000 ug/L	101.7	101.7	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV +	ICP/MS (Continuing calibration)	Cr	40.829 ug/L	40.000 ug/L	102.2	102.7	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated / Found %RSD / X%	Acceptable (Y/N)
	Mass Axis	58.933	58.975	± 0.1 AMU	NA	Y
	%RSD	102.9	100879.171	≤ 5% RSD	2.27. RSD	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$
 Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample	Cr	42.559 ug/L	40.000 ug/L	106.7%	106.7%	Y
MS	Matrix spike	Cr	⁸⁸⁶ (SSR-SR) 40.361 - SR = 39.475 ug/L	40.000 ug/L	98.77%	98.77%	Y
MSD	Duplicate	Cr	40.105 ug/L	FOUND: 40.361 ug/L		0.6367-RPD	Y
PS	Post digestion spike	Cr	40.601 ug/L - SR = 39.732 ug/L	SR - 0.86828 SA - 40	99.37%	99.37%	Y
	ICP serial dilution						

Comments: SD - NO/NR - < RL

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-02960

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-3	1802960-02	Water	01/26/18
MW-22-2	1802960-03	Water	01/26/18
MW-22-1	1802960-04	Water	01/26/18
Dup-4-1Q18	1802960-05	Water	01/26/18
MW-24-4	1802960-06	Water	01/26/18
MW-24-3	1802960-07	Water	01/26/18
MW-24-2	1802960-08	Water	01/26/18
MW-24-1**	1802960-09**	Water	01/26/18
EB-4-012618	1802960-10	Water	01/26/18
MW-22-2MS	1802960-03MS	Water	01/26/18
MW-22-2MSD	1802960-03MSD	Water	01/26/18
MW-22-2DUP	1802960-03DUP	Water	01/26/18
MW-24-1MS	1802960-09MS	Water	01/26/18
MW-24-1MSD	1802960-09MSD	Water	01/26/18
MW-24-1DUP	1802960-09DUP	Water	01/26/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Chloride, Nitrate as Nitrogen, and Sulfate by Environmental Protection Agency (EPA) Method 300.0

Nitrate as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA SW 846 Method 7196

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-4-012618 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-22-1 and Dup-4-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-22-1	Dup-4-1Q18	
Perchlorate	2.5	2.2	13

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-02960

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-02960

No Sample Data Qualified in this SDG

LDC #: 41286D6
 SDG #: 18-02960
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 3/8/18
 Page: 1 of 2
 Reviewer: JS
 2nd Reviewer: [Signature]

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB = 9
VI.	Matrix Spike/Matrix Spike Duplicates	A	(10,11) (13,14)
VII.	Duplicate sample analysis	A	12, 15
VIII.	Laboratory control samples	A	LC5
IX.	Field duplicates	SW	(3,4)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank
 SB=Source blank
 OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-22-3	1802960-02	Water	01/26/18
2	MW-22-2	1802960-03	Water	01/26/18
3	MW-22-1	1802960-04	Water	01/26/18
4	Dup-4-1Q18	1802960-05	Water	01/26/18
5	MW-24-4 *	1802960-06	Water	01/26/18
6	MW-24-3	1802960-07	Water	01/26/18
7	MW-24-2	1802960-08	Water	01/26/18
8	MW-24-1**	1802960-09**	Water	01/26/18
9	EB-4-012618	1802960-10	Water	01/26/18
10	MW-22-2MS Cl ₂ Cr ₆	1802960-03MS	Water	01/26/18
11	MW-22-2MSD	1802960-03MSD	Water	01/26/18
12	MW-22-2DUP	1802960-03DUP	Water	01/26/18
13	MW-24-1MS op	1802960-09MS	Water	01/26/18
14	MW-24-1MSD	1802960-09MSD	Water	01/26/18
15	MW-24-1DUP	1802960-09DUP	Water	01/26/18
16				
17				

LDC #: 41286D6
SDG #: 18-02960
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 3/8/18
Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18				
19				
20				

Notes: 300-8

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		/		

LDC# 41286D6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: 13
2nd Reviewer: 1

Inorganics: Method See Cover

Analyte	Concentration		RPD	
	3	4		
Perchlorate (ug/L)	2.5	2.2	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41286D6.wpd

LDC #: 41286D6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: JS
 2nd Reviewer: [Signature]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr⁶⁺ was recalculated. Calibration date: 12/26/17

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr ⁶⁺	s1	0	0	0.999808	0.999815	Y
		s2	0.002	0.00153			
		s3	0.005	0.00365			
		s4	0.025	0.01809			
		s5	0.05	0.03509			
		s6	0.1	0.06882			
Calibration verification	NO ₃	ICV	Found: 4.9505 mg/L True: 5.0000 mg/L		99.07%	99.17%	Y
Calibration verification	Cl ⁻	CCV	Found: 50.8936 mg/L True: 50.000 mg/L		1027%	1017%	Y
Calibration verification							

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Inorganics, Method See Cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample	NO ₂	0.50642 mg/L	0.50000 mg/L	1017.	1017.	Y
MS	Matrix spike sample	OPo ₄	ND (SSR-SR) 0.21994 mg/L	0.21053 mg/L	1047.	1047.	Y
MSD	Duplicate sample	OPo ₄	0.21994 mg/L	Found: 0.21994 mg/L	0 RPD	0 RPD	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 15, 2018

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03079

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-5-012918	1803079-01	Water	01/29/18
MW-21-5	1803079-02	Water	01/29/18
MW-21-4	1803079-03	Water	01/29/18
MW-21-3	1803079-04	Water	01/29/18
MW-21-2	1803079-05	Water	01/29/18
MW-25-5	1803079-06	Water	01/29/18
MW-25-4	1803079-07	Water	01/29/18
MW-25-3	1803079-08	Water	01/29/18
MW-25-2	1803079-09	Water	01/29/18
MW-25-1	1803079-10	Water	01/29/18
EB-5-012918	1803079-11	Water	01/29/18
SB-2-012918	1803079-12	Water	01/29/18
MW-25-4MS	1803079-07MS	Water	01/29/18
MW-25-4MSD	1803079-07MSD	Water	01/29/18

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/02/18	Methyl iodide	38.8	TB-5-012918 MW-21-5 MW-21-4 MW-21-3 MW-25-4	UJ (all non-detects)	A
02/03/18	Methyl iodide Pentachloroethane	43.4 97.4	MW-21-2 MW-25-5 MW-25-3 MW-25-2 MW-25-1 EB-5-012918 SB-2-012918	UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-5-012918 was identified as a trip blank. No contaminants were found with the following exceptions:

Blank ID	Compound	Concentration (ug/L)
TB-5-012918	Acetone	18

Sample EB-5-012918 was identified as an equipment blank. No contaminants were found.

Sample SB-2-012918 was identified as a source blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, data were qualified as estimated in twelve samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-03079

Sample	Compound	Flag	A or P	Reason
TB-5-012918 MW-21-5 MW-21-4 MW-21-3 MW-25-4	Methyl iodide	UJ (all non-detects)	A	Continuing calibration (%D)
MW-21-2 MW-25-5 MW-25-3 MW-25-2 MW-25-1 EB-5-012918 SB-2-012918	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-03079

No Sample Data Qualified in this SDG

LDC #: 41286E1

VALIDATION COMPLETENESS WORKSHEET

Date: 09/15/18

SDG #: 18-03079

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JVL

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	ICAL \leq 20% \checkmark ICV \leq 30%
IV.	Continuing calibration	SW	CCV \leq 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	TB = 1 \checkmark EB = 11 \checkmark SB = 12 \checkmark
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	\checkmark A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

\checkmark ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
+ 1	TB-5-012918	1803079-01	Water	01/29/18
+ 2	MW-21-5	1803079-02	Water	01/29/18
+ 3	MW-21-4	1803079-03	Water	01/29/18
+ 4	MW-21-3	1803079-04	Water	01/29/18
+ 5	MW-21-2	1803079-05	Water	01/29/18
- 6	MW-25-5	1803079-06	Water	01/29/18
- 7	MW-25-4	1803079-07	Water	01/29/18
+ 8	MW-25-3	1803079-08	Water	01/29/18
- 9	MW-25-2	1803079-09	Water	01/29/18
+ 10	MW-25-1	1803079-10	Water	01/29/18
- 11	EB-5-012918	1803079-11	Water	01/29/18
- 12	SB-2-012918	1803079-12	Water	01/29/18
13	MW-25-4MS	1803079-07MS	Water	01/29/18

LDC #: 41286E1
SDG #: 18-03079
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 03/15/18
Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-25-4MSD	1803079-07MSD	Water	01/29/18
15				
16				
17				
18				
19				

Notes:

-1	B003772 - Blk 1					
-2	1802243 - CC3					

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Diisopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. <i>Methyl iodide</i>	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 41286 E1

VALIDATION FINDINGS WORKSHEET

Field Blanks

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A Were field blanks identified in this SDG?
 Y N N/A Were target compounds detected in the field blanks?

Sample: 1 Field Blank Trip Blank / Rinsate / Equipment Blank (circle one)

Compound	Concentration Units (ug/L)
F	18

Sample: _____ Field Blank / Trip Blank / Rinsate / Equipment Blank (circle one)

Compound	Concentration Units (ug/L)

Sample: _____ Field Blank / Trip Blank / Rinsate / Equipment Blank (circle one)

Compound	Concentration Units (ug/L)

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03079

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-21-5	1803079-02	Water	01/29/18
MW-21-4	1803079-03	Water	01/29/18
MW-21-3	1803079-04	Water	01/29/18
MW-21-2	1803079-05	Water	01/29/18
MW-25-5	1803079-06	Water	01/29/18
MW-25-4	1803079-07	Water	01/29/18
MW-25-3	1803079-08	Water	01/29/18
MW-25-2	1803079-09	Water	01/29/18
MW-25-1	1803079-10	Water	01/29/18
EB-5-012918	1803079-11	Water	01/29/18
SB-2-012918	1803079-12	Water	01/29/18
MW-25-4MS	1803079-07MS	Water	01/29/18
MW-25-4MSD	1803079-07MSD	Water	01/29/18
MW-25-4DUP	1803079-07DUP	Water	01/29/18

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	1.3650 ug/L	MW-21-5 MW-21-4 MW-21-3 MW-21-2 MW-25-5 MW-25-4 MW-25-3 MW-25-2 MW-25-1 EB-5-012918
PB (prep blank)	Chromium	1.0020 ug/L	SB-2-012918

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-21-5	Chromium	2.3 ug/L	2.3U ug/L
MW-21-3	Chromium	6.8 ug/L	6.8U ug/L
MW-21-2	Chromium	6.1 ug/L	6.1U ug/L
MW-25-5	Chromium	5.6 ug/L	5.6U ug/L
MW-25-4	Chromium	1.2 ug/L	1.2U ug/L
MW-25-3	Chromium	5.5 ug/L	5.5U ug/L
MW-25-1	Chromium	3.0 ug/L	3.0U ug/L
EB-5-012918	Chromium	2.9 ug/L	2.9U ug/L
SB-2-012918	Chromium	1.1 ug/L	1.1U ug/L

VI. Field Blanks

Sample EB-5-012918 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-5-012918	Chromium	2.9

Sample SB-2-012918 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
SB-2-012918	Chromium	1.1

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-03079

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-03079

Sample	Analyte	Modified Final Concentration	A or P
MW-21-5	Chromium	2.3U ug/L	A
MW-21-3	Chromium	6.8U ug/L	A
MW-21-2	Chromium	6.1U ug/L	A
MW-25-5	Chromium	5.6U ug/L	A
MW-25-4	Chromium	1.2U ug/L	A
MW-25-3	Chromium	5.5U ug/L	A
MW-25-1	Chromium	3.0U ug/L	A
EB-5-012918	Chromium	2.9U ug/L	A
SB-2-012918	Chromium	1.1U ug/L	A

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 3/18/18

Page: 1 of 2

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	Not Required
V.	Laboratory Blanks	SW	EB=10, SB=11
VI.	Field Blanks	SW	
VII.	Matrix Spike/Matrix Spike Duplicates	A	(12,13)
VIII.	Duplicate sample analysis	A	14
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	N	Not Reviewed for Level III
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-21-5	1803079-02	Water	01/29/18
2	MW-21-4	1803079-03	Water	01/29/18
3	MW-21-3	1803079-04	Water	01/29/18
4	MW-21-2	1803079-05	Water	01/29/18
5	MW-25-5	1803079-06	Water	01/29/18
6	MW-25-4	1803079-07	Water	01/29/18
7	MW-25-3	1803079-08	Water	01/29/18
8	MW-25-2	1803079-09	Water	01/29/18
9	MW-25-1	1803079-10	Water	01/29/18
10	EB-5-012918	1803079-11	Water	01/29/18
11	SB-2-012918	1803079-12	Water	01/29/18
12	MW-25-4MS	1803079-07MS	Water	01/29/18
13	MW-25-4MSD	1803079-07MSD	Water	01/29/18
14	MW-25-4DUP	1803079-07DUP	Water	01/29/18
15				

LDC #: 41286E4a
SDG #: 18-03079
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level III

Date: 3/8/18
Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16				
17				
18				
19				

Notes: _____

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 1 - 10

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (mg/L)	Action Level	1	3	4	5	6	7	9	10
Cr		1.3650		6.825	2.3	6.8	6.1	5.6	1.2	5.5	3.0	2.9

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 11

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (mg/L)	Action Level	11
Cr		1.0020		5.01	1.1

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

METHOD: Trace Metals (EPA CLP SOW ILM02.1)

Y N N/A Were field blanks identified in this SDG?
 Y N N/A Were target analytes detected in the field blanks?

Sample: 10 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (ug/L)
Cr	2.9

Sample: 11 Field Blank / Trip Blank / Rinsate / Other SB (circle one)

Analyte	Concentration Units (ug/L)
Cr	1.1

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03079

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-21-5	1803079-02	Water	01/29/18
MW-21-4	1803079-03	Water	01/29/18
MW-21-3	1803079-04	Water	01/29/18
MW-21-2	1803079-05	Water	01/29/18
MW-25-5	1803079-06	Water	01/29/18
MW-25-4	1803079-07	Water	01/29/18
MW-25-3	1803079-08	Water	01/29/18
MW-25-2	1803079-09	Water	01/29/18
MW-25-1	1803079-10	Water	01/29/18
EB-5-012918	1803079-11	Water	01/29/18
SB-2-012918	1803079-12	Water	01/29/18
MW-21-5MS	1803079-02MS	Water	01/29/18
MW-21-5MSD	1803079-02MSD	Water	01/29/18
MW-21-5DUP	1803079-02DUP	Water	01/29/18
MW-25-4MS	1803079-07MS	Water	01/29/18
MW-25-4MSD	1803079-07MSD	Water	01/29/18
MW-25-4DUP	1803079-07DUP	Water	01/29/18

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method 7196

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-5-012918 was identified as an equipment blank. No contaminants were found.

Sample SB-2-012918 was identified as a source blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-03079

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-03079

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET
 Level III

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB = 10, SB = 11
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12, 13) (15, 16)
VII.	Duplicate sample analysis	A	14, 17
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	N	
XI	Overall assessment of data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank
 SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-21-5	1803079-02	Water	01/29/18
2	MW-21-4	1803079-03	Water	01/29/18
3	MW-21-3	1803079-04	Water	01/29/18
4	MW-21-2	1803079-05	Water	01/29/18
5	MW-25-5	1803079-06	Water	01/29/18
6	MW-25-4	1803079-07	Water	01/29/18
7	MW-25-3	1803079-08	Water	01/29/18
8	MW-25-2	1803079-09	Water	01/29/18
9	MW-25-1	1803079-10	Water	01/29/18
10	EB-5-012918	1803079-11	Water	01/29/18
11	SB-2-012918	1803079-12	Water	01/29/18
12	MW-21-5MS	1803079-02MS	Water	01/29/18
13	MW-21-5MSD	1803079-02MSD	Water	01/29/18
14	MW-21-5DUP	1803079-02DUP	Water	01/29/18
15	MW-25-4MS	1803079-07MS	Water	01/29/18
16	MW-25-4MSD	1803079-07MSD	Water	01/29/18
17	MW-25-4DUP	1803079-07DUP	Water	01/29/18

LDC #: 41286E6
SDG #: 18-03079
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level III

Date: 3/31/18
Page: 2 of 2
Reviewer: AB
2nd Reviewer: Q

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18				
19				
20				
21				
22				

Notes: _____

VALIDATION FINDINGS WORKSHEET Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-11	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
00	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
12, 13, 14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
15-17	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

SDG 18-02588 - NASA JPL, 1Q2018

SDG: 18-02588

Analytical Method		EPA-200.8										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-1-1Q18	1802588-03	Total Recoverable Chromium	1/30/2018	1	Y	y	vj	U	3.0	0.50	ug/L	
EB-1-012318	1802588-10	Total Recoverable Chromium	1/30/2018	1.3	Y	y	vj	U	3.0	0.50	ug/L	
MW-20-2	1802588-06	Total Recoverable Chromium	1/30/2018	1.1	Y	y	vj	U	3.0	0.50	ug/L	
MW-20-3	1802588-05	Total Recoverable Chromium	1/30/2018	1	Y	y	vj	U	3.0	0.50	ug/L	
MW-20-4	1802588-04	Total Recoverable Chromium	1/30/2018	0.99	Y	y	vj	U	3.0	0.50	ug/L	
MW-20-5	1802588-02	Total Recoverable Chromium	1/30/2018	0.88	Y	y	vj	U	3.0	0.50	ug/L	
SB-1-012318	1802588-11	Total Recoverable Chromium	1/30/2018	1.2	Y	y	vj	U	3.0	0.50	ug/L	

Analytical Method		EPA-314.0										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-1-1Q18	1802588-03	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
EB-1-012318	1802588-10	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-19-3	1802588-09	Perchlorate	2/5/2018	4.1	Y	y	v	J	4.0	0.58	ug/L	
MW-19-4	1802588-08	Perchlorate	2/5/2018	2.4	Y	y	vj	J	4.0	0.58	ug/L	
MW-19-5	1802588-07	Perchlorate	2/5/2018	2.1	Y	y	vj	J	4.0	0.58	ug/L	
MW-20-2	1802588-06	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-20-3	1802588-05	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-20-4	1802588-04	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-20-5	1802588-02	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
SB-1-012318	1802588-11	Perchlorate	2/5/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	

Analytical Method		EPA-524.2										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-1-1Q18	1802588-03	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L	
DUP-1-1Q18	1802588-03	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L	

SDG:

18-02588

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-1Q18	1802588-03	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-1-1Q18	1802588-03	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-1-1Q18	1802588-03	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
DUP-1-1Q18	1802588-03	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
DUP-1-1Q18	1802588-03	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
DUP-1-1Q18	1802588-03	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
DUP-1-1Q18	1802588-03	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
DUP-1-1Q18	1802588-03	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-1-1Q18	1802588-03	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-1-1Q18	1802588-03	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-1-1Q18	1802588-03	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-1-1Q18	1802588-03	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-1-1Q18	1802588-03	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
DUP-1-1Q18	1802588-03	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-1Q18	1802588-03	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-1-1Q18	1802588-03	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-1-1Q18	1802588-03	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
DUP-1-1Q18	1802588-03	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-1-1Q18	1802588-03	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
DUP-1-1Q18	1802588-03	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-1-1Q18	1802588-03	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-1-1Q18	1802588-03	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-1-1Q18	1802588-03	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-1Q18	1802588-03	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-1-1Q18	1802588-03	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-1Q18	1802588-03	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	9.9	Y	y	vs				ug/L
DUP-1-1Q18	1802588-03	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-1-1Q18	1802588-03	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-1-1Q18	1802588-03	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
DUP-1-1Q18	1802588-03	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
DUP-1-1Q18	1802588-03	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
DUP-1-1Q18	1802588-03	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
DUP-1-1Q18	1802588-03	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
DUP-1-1Q18	1802588-03	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.8	Y	y	vs				ug/L
DUP-1-1Q18	1802588-03	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-1Q18	1802588-03	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
DUP-1-1Q18	1802588-03	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
DUP-1-1Q18	1802588-03	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-1-1Q18	1802588-03	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-1-1Q18	1802588-03	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-1Q18	1802588-03	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-1-1Q18	1802588-03	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-1Q18	1802588-03	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-1Q18	1802588-03	Styrene	1/26/2018	0.16	Y	y	vj		0.50	0.12	ug/L
DUP-1-1Q18	1802588-03	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-1-1Q18	1802588-03	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-1-1Q18	1802588-03	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-1Q18	1802588-03	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-1Q18	1802588-03	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-1-1Q18	1802588-03	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-1Q18	1802588-03	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-1-1Q18	1802588-03	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-1-1Q18	1802588-03	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-1-1Q18	1802588-03	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-1Q18	1802588-03	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-1-1Q18	1802588-03	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-1-1Q18	1802588-03	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-1Q18	1802588-03	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-1Q18	1802588-03	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-1-1Q18	1802588-03	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-1-1Q18	1802588-03	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-1-1Q18	1802588-03	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-1Q18	1802588-03	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-1Q18	1802588-03	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-1Q18	1802588-03	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-1Q18	1802588-03	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-1Q18	1802588-03	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-1-1Q18	1802588-03	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-1Q18	1802588-03	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-1Q18	1802588-03	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-1Q18	1802588-03	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-1-1Q18	1802588-03	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-1Q18	1802588-03	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-1Q18	1802588-03	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-012318	1802588-10	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-012318	1802588-10	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
EB-1-012318	1802588-10	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
EB-1-012318	1802588-10	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
EB-1-012318	1802588-10	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
EB-1-012318	1802588-10	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-012318	1802588-10	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-012318	1802588-10	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-012318	1802588-10	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
EB-1-012318	1802588-10	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-012318	1802588-10	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-012318	1802588-10	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-012318	1802588-10	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
EB-1-012318	1802588-10	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-012318	1802588-10	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
EB-1-012318	1802588-10	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-1-012318	1802588-10	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-1-012318	1802588-10	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
EB-1-012318	1802588-10	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
EB-1-012318	1802588-10	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
EB-1-012318	1802588-10	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
EB-1-012318	1802588-10	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
EB-1-012318	1802588-10	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.9	Y	y	v s				ug/L
EB-1-012318	1802588-10	Toluene-d8 (Surrogate)	1/26/2018	9.8	Y	y	v s				ug/L
EB-1-012318	1802588-10	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	9.8	Y	y	v s				ug/L
EB-1-012318	1802588-10	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
EB-1-012318	1802588-10	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-1-012318	1802588-10	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
EB-1-012318	1802588-10	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
EB-1-012318	1802588-10	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-1-012318	1802588-10	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
EB-1-012318	1802588-10	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
EB-1-012318	1802588-10	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-012318	1802588-10	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
EB-1-012318	1802588-10	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
EB-1-012318	1802588-10	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
EB-1-012318	1802588-10	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-012318	1802588-10	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-1-012318	1802588-10	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-012318	1802588-10	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-1-012318	1802588-10	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-012318	1802588-10	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-1-012318	1802588-10	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-1-012318	1802588-10	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
EB-1-012318	1802588-10	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-1-012318	1802588-10	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-1-012318	1802588-10	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-012318	1802588-10	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-012318	1802588-10	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-012318	1802588-10	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-1-012318	1802588-10	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-012318	1802588-10	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-012318	1802588-10	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
EB-1-012318	1802588-10	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-012318	1802588-10	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-012318	1802588-10	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-1-012318	1802588-10	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-1-012318	1802588-10	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-1-012318	1802588-10	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-012318	1802588-10	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-012318	1802588-10	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-012318	1802588-10	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-012318	1802588-10	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-012318	1802588-10	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-012318	1802588-10	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-012318	1802588-10	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-012318	1802588-10	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-012318	1802588-10	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-012318	1802588-10	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
EB-1-012318	1802588-10	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-012318	1802588-10	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-3	1802588-09	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1802588-09	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	Tetrachloroethene	1/26/2018	0.47	Y	y	v j		0.50	0.23	ug/L
MW-19-3	1802588-09	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1802588-09	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1802588-09	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-3	1802588-09	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-3	1802588-09	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1802588-09	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1802588-09	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-3	1802588-09	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-3	1802588-09	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-3	1802588-09	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-3	1802588-09	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-3	1802588-09	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-3	1802588-09	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1802588-09	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-3	1802588-09	Trichloroethene	1/26/2018	0.23	Y	y	v j		0.50	0.19	ug/L
MW-19-3	1802588-09	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
MW-19-3	1802588-09	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1802588-09	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1802588-09	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-3	1802588-09	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1802588-09	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1802588-09	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1802588-09	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1802588-09	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-3	1802588-09	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-3	1802588-09	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-3	1802588-09	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1802588-09	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1802588-09	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1802588-09	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1802588-09	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1802588-09	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1802588-09	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1802588-09	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1802588-09	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1802588-09	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1802588-09	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1802588-09	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1802588-09	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-3	1802588-09	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1802588-09	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1802588-09	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1802588-09	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-3	1802588-09	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1802588-09	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-3	1802588-09	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-3	1802588-09	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1802588-09	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
MW-19-3	1802588-09	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
MW-19-3	1802588-09	Chloroform	1/26/2018	1.4	Y	y	v		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1802588-09	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
MW-19-3	1802588-09	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
MW-19-3	1802588-09	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
MW-19-3	1802588-09	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
MW-19-3	1802588-09	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.2	Y	y	v s				ug/L
MW-19-3	1802588-09	Toluene-d8 (Surrogate)	1/26/2018	9.6	Y	y	v s				ug/L
MW-19-3	1802588-09	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	10	Y	y	v s				ug/L
MW-19-3	1802588-09	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
MW-19-3	1802588-09	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-3	1802588-09	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
MW-19-3	1802588-09	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
MW-19-3	1802588-09	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-3	1802588-09	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-3	1802588-09	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
MW-19-3	1802588-09	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
MW-19-3	1802588-09	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
MW-19-3	1802588-09	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1802588-09	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	Styrene	1/25/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-4	1802588-08	1,1,1,2-Tetrachloroethane	1/25/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1802588-08	1,1,1,2,2-Tetrachloroethane	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	Tetrachloroethene	1/25/2018	0.83	Y	y	v		0.50	0.23	ug/L
MW-19-4	1802588-08	1,2,3-Trichlorobenzene	1/25/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1802588-08	Isopropylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	1,2,4-Trichlorobenzene	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1802588-08	Toluene	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	n-Propylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-4	1802588-08	Naphthalene	1/25/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-4	1802588-08	Methyl t-butyl ether	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	p-Isopropyltoluene	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	Hexachlorobutadiene	1/25/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1802588-08	1,1,1-Trichloroethane	1/25/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1802588-08	t-Amyl Methyl ether	1/25/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1802588-08	Methylene chloride	1/25/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1802588-08	Acetone	1/25/2018	10	Y	n	u		10	6.6	ug/L
MW-19-4	1802588-08	Ethyl t-butyl ether	1/25/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-4	1802588-08	Diethyl ether	1/25/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-4	1802588-08	trans-1,4-Dichloro-2-butene	1/25/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-4	1802588-08	Carbon disulfide	1/25/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-4	1802588-08	t-Butyl alcohol	1/25/2018	10	Y	n	u		10	9.4	ug/L
MW-19-4	1802588-08	1,1-Dichloroethane	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1802588-08	Acrylonitrile	1/25/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-4	1802588-08	Ethylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1802588-08	1,1,2-Trichloroethane	1/25/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1802588-08	Vinyl chloride	1/25/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1802588-08	1,3,5-Trimethylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	1,2,4-Trimethylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	1,1,2-Trichloro-1,2,2-trifluoroethane	1/25/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1802588-08	1,2,3-Trichloropropane	1/25/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-4	1802588-08	Trichlorofluoromethane	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1802588-08	Trichloroethene	1/25/2018	0.19	Y	y	v j		0.50	0.19	ug/L
MW-19-4	1802588-08	Allyl chloride	1/25/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-4	1802588-08	n-Butylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1802588-08	2-Chlorotoluene	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	Chloromethane	1/25/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1802588-08	Chloroform	1/25/2018	1	Y	y	v		0.50	0.14	ug/L
MW-19-4	1802588-08	Chloroethane	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	Chlorobenzene	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	Carbon tetrachloride	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	1,1-Dichloroethene	1/25/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1802588-08	sec-Butylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1802588-08	1,2-Dibromo-3-chloropropane	1/25/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-4	1802588-08	Bromomethane	1/25/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1802588-08	Bromoform	1/25/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-4	1802588-08	Bromodichloromethane	1/25/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1802588-08	Bromochloromethane	1/25/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1802588-08	Bromobenzene	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1802588-08	Benzene	1/25/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1802588-08	tert-Butylbenzene	1/25/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1802588-08	Hexachloroethane	1/25/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1802588-08	cis-1,3-Dichloropropene	1/25/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1802588-08	1,1-Dichloropropene	1/25/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1802588-08	2,2-Dichloropropane	1/25/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1802588-08	1,3-Dichloropropane	1/25/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1802588-08	1,2-Dichloropropane	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1802588-08	trans-1,2-Dichloroethene	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	4-Chlorotoluene	1/25/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-4	1802588-08	1,2-Dichloroethane	1/25/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1802588-08	Dibromochloromethane	1/25/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-4	1802588-08	Dichlorodifluoromethane	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1802588-08	1,4-Dichlorobenzene	1/25/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1802588-08	1,3-Dichlorobenzene	1/25/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-4	1802588-08	1,2-Dichlorobenzene	1/25/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1802588-08	Dibromomethane	1/25/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-4	1802588-08	1,2-Dibromoethane	1/25/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-4	1802588-08	trans-1,3-Dichloropropene	1/25/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1802588-08	cis-1,2-Dichloroethene	1/25/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1802588-08	Methyl acrylate	1/25/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	2-Hexanone	1/25/2018	10	Y	n	u		10	5.0	ug/L
MW-19-4	1802588-08	Ethyl methacrylate	1/25/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-4	1802588-08	Nitrobenzene	1/25/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	1,1-Dichloropropanone	1/25/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	1-Chlorobutane	1/25/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	Chloroacetonitrile	1/25/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	4-Bromofluorobenzene (Surrogate)	1/25/2018	8.8	Y	y	vs				ug/L
MW-19-4	1802588-08	Toluene-d8 (Surrogate)	1/25/2018	9.8	Y	y	vs				ug/L
MW-19-4	1802588-08	1,2-Dichloroethane-d4 (Surrogate)	1/25/2018	10	Y	y	vs				ug/L
MW-19-4	1802588-08	Methyl iodide	1/25/2018	2	Y	n	u		2.0	1.1	ug/L
MW-19-4	1802588-08	p- & m-Xylenes	1/25/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-4	1802588-08	Tetrahydrofuran	1/25/2018	20	Y	n	u		20	5.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1802588-08	Propionitrile	1/25/2018	20	Y	n	u		20	6.2	ug/L
MW-19-4	1802588-08	Pentachloroethane	1/25/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-4	1802588-08	Methyl methacrylate	1/25/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-4	1802588-08	Methyl isobutyl ketone	1/25/2018	10	Y	n	u		10	2.4	ug/L
MW-19-4	1802588-08	Methacrylonitrile	1/25/2018	10	Y	n	u		10	2.3	ug/L
MW-19-4	1802588-08	2-Nitropropane	1/25/2018	0	Y	y	v				ug/L
MW-19-4	1802588-08	Methyl ethyl ketone	1/25/2018	10	Y	n	u		10	3.3	ug/L
MW-19-4	1802588-08	o-Xylene	1/25/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1802588-07	Bromodichloromethane	1/26/2018	0.25	Y	y	v j		0.50	0.20	ug/L
MW-19-5	1802588-07	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1802588-07	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1802588-07	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1802588-07	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1802588-07	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-5	1802588-07	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-5	1802588-07	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	Chloroform	1/26/2018	3	Y	y	v		0.50	0.14	ug/L
MW-19-5	1802588-07	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1802588-07	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1802588-07	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1802588-07	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1802588-07	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1802588-07	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-5	1802588-07	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-5	1802588-07	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-5	1802588-07	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-5	1802588-07	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-5	1802588-07	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
MW-19-5	1802588-07	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-5	1802588-07	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-5	1802588-07	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1802588-07	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
MW-19-5	1802588-07	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1802588-07	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1802588-07	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-5	1802588-07	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-5	1802588-07	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1802588-07	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-5	1802588-07	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1802588-07	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1802588-07	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1802588-07	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-5	1802588-07	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-5	1802588-07	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1802588-07	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	Tetrachloroethene	1/26/2018	0.35	Y	y	v j		0.50	0.23	ug/L
MW-19-5	1802588-07	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1802588-07	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-5	1802588-07	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-5	1802588-07	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-5	1802588-07	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-5	1802588-07	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1802588-07	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1802588-07	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1802588-07	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1802588-07	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1802588-07	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1802588-07	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1802588-07	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1802588-07	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-5	1802588-07	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-5	1802588-07	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
MW-19-5	1802588-07	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
MW-19-5	1802588-07	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1802588-07	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
MW-19-5	1802588-07	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
MW-19-5	1802588-07	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
MW-19-5	1802588-07	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
MW-19-5	1802588-07	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.3	Y	y	vs				ug/L
MW-19-5	1802588-07	Toluene-d8 (Surrogate)	1/26/2018	9.8	Y	y	vs				ug/L
MW-19-5	1802588-07	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
MW-19-5	1802588-07	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
MW-19-5	1802588-07	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
MW-19-5	1802588-07	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
MW-19-5	1802588-07	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1802588-07	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
MW-19-5	1802588-07	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
MW-19-5	1802588-07	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-5	1802588-07	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-5	1802588-07	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
MW-19-5	1802588-07	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
MW-19-5	1802588-07	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-2	1802588-06	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1802588-06	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-2	1802588-06	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-2	1802588-06	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1802588-06	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1802588-06	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-2	1802588-06	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1802588-06	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-2	1802588-06	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-2	1802588-06	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1802588-06	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-2	1802588-06	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-2	1802588-06	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-2	1802588-06	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1802588-06	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1802588-06	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-2	1802588-06	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-2	1802588-06	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-2	1802588-06	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1802588-06	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-2	1802588-06	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-2	1802588-06	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1802588-06	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-2	1802588-06	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1802588-06	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-2	1802588-06	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-20-2	1802588-06	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-2	1802588-06	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
MW-20-2	1802588-06	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
MW-20-2	1802588-06	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
MW-20-2	1802588-06	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
MW-20-2	1802588-06	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-20-2	1802588-06	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-2	1802588-06	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-20-2	1802588-06	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
MW-20-2	1802588-06	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
MW-20-2	1802588-06	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-2	1802588-06	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1802588-06	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	9.4	Y	y	vs				ug/L
MW-20-2	1802588-06	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
MW-20-2	1802588-06	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
MW-20-2	1802588-06	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1802588-06	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1802588-06	Chloroform	1/26/2018	0.15	Y	y	v j		0.50	0.14	ug/L
MW-20-2	1802588-06	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-2	1802588-06	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1802588-06	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-2	1802588-06	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
MW-20-2	1802588-06	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-2	1802588-06	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-20-2	1802588-06	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
MW-20-2	1802588-06	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
MW-20-2	1802588-06	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-2	1802588-06	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-2	1802588-06	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-2	1802588-06	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-2	1802588-06	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
MW-20-2	1802588-06	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-2	1802588-06	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-2	1802588-06	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-2	1802588-06	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-2	1802588-06	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1802588-06	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-2	1802588-06	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1802588-06	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
MW-20-2	1802588-06	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1802588-06	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
MW-20-2	1802588-06	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1802588-06	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
MW-20-2	1802588-06	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.6	Y	y	v s				ug/L
MW-20-2	1802588-06	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-2	1802588-06	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-2	1802588-06	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1802588-06	Trichloroethene	1/26/2018	0.64	Y	y	v		0.50	0.19	ug/L
MW-20-2	1802588-06	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-2	1802588-06	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1802588-06	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
MW-20-3	1802588-05	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1802588-05	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-3	1802588-05	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1802588-05	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-3	1802588-05	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-3	1802588-05	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1802588-05	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1802588-05	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1802588-05	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-3	1802588-05	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-3	1802588-05	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
MW-20-3	1802588-05	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-3	1802588-05	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
MW-20-3	1802588-05	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1802588-05	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-20-3	1802588-05	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-20-3	1802588-05	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
MW-20-3	1802588-05	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-3	1802588-05	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-3	1802588-05	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1802588-05	Styrene	1/26/2018	0.33	Y	y	vj		0.50	0.12	ug/L
MW-20-3	1802588-05	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1802588-05	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1802588-05	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1802588-05	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1802588-05	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1802588-05	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-3	1802588-05	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1802588-05	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-3	1802588-05	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-3	1802588-05	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
MW-20-3	1802588-05	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
MW-20-3	1802588-05	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
MW-20-3	1802588-05	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
MW-20-3	1802588-05	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
MW-20-3	1802588-05	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.6	Y	y	vs				ug/L
MW-20-3	1802588-05	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
MW-20-3	1802588-05	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-3	1802588-05	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1802588-05	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1802588-05	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
MW-20-3	1802588-05	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
MW-20-3	1802588-05	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-20-3	1802588-05	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-3	1802588-05	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
MW-20-3	1802588-05	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
MW-20-3	1802588-05	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1802588-05	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-3	1802588-05	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-3	1802588-05	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	10	Y	y	v s				ug/L
MW-20-3	1802588-05	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-3	1802588-05	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-3	1802588-05	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-3	1802588-05	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-3	1802588-05	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-3	1802588-05	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1802588-05	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1802588-05	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
MW-20-3	1802588-05	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1802588-05	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-3	1802588-05	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1802588-05	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-3	1802588-05	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-3	1802588-05	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-3	1802588-05	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-3	1802588-05	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-3	1802588-05	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1802588-05	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-3	1802588-05	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-20-3	1802588-05	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
MW-20-4	1802588-04	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-4	1802588-04	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1802588-04	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-4	1802588-04	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1802588-04	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-4	1802588-04	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
MW-20-4	1802588-04	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-4	1802588-04	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-4	1802588-04	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-4	1802588-04	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1802588-04	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-4	1802588-04	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-4	1802588-04	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-4	1802588-04	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-4	1802588-04	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
MW-20-4	1802588-04	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-20-4	1802588-04	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-4	1802588-04	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
MW-20-4	1802588-04	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
MW-20-4	1802588-04	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1802588-04	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1802588-04	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1802588-04	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-4	1802588-04	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-4	1802588-04	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-4	1802588-04	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1802588-04	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-4	1802588-04	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1802588-04	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
MW-20-4	1802588-04	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-4	1802588-04	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
MW-20-4	1802588-04	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-4	1802588-04	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-4	1802588-04	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-4	1802588-04	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-4	1802588-04	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-4	1802588-04	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
MW-20-4	1802588-04	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-20-4	1802588-04	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
MW-20-4	1802588-04	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
MW-20-4	1802588-04	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1802588-04	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1802588-04	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1802588-04	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-4	1802588-04	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-4	1802588-04	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-4	1802588-04	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1802588-04	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-4	1802588-04	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-4	1802588-04	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-4	1802588-04	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-4	1802588-04	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-4	1802588-04	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1802588-04	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1802588-04	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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MW-20-4	1802588-04	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-20-4	1802588-04	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-4	1802588-04	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-4	1802588-04	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1802588-04	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1802588-04	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1802588-04	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-4	1802588-04	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	v s				ug/L
MW-20-4	1802588-04	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.3	Y	y	v s				ug/L
MW-20-4	1802588-04	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
MW-20-4	1802588-04	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
MW-20-4	1802588-04	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
MW-20-4	1802588-04	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
MW-20-4	1802588-04	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
MW-20-4	1802588-04	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	9.9	Y	y	v s				ug/L
MW-20-5	1802588-02	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
MW-20-5	1802588-02	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-5	1802588-02	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-5	1802588-02	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1802588-02	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-5	1802588-02	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-5	1802588-02	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1802588-02	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-5	1802588-02	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-5	1802588-02	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
MW-20-5	1802588-02	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-5	1802588-02	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
MW-20-5	1802588-02	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-5	1802588-02	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1802588-02	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-5	1802588-02	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
MW-20-5	1802588-02	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
MW-20-5	1802588-02	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
MW-20-5	1802588-02	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
MW-20-5	1802588-02	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-5	1802588-02	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-20-5	1802588-02	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
MW-20-5	1802588-02	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
MW-20-5	1802588-02	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
MW-20-5	1802588-02	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1802588-02	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-5	1802588-02	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
MW-20-5	1802588-02	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-20-5	1802588-02	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-5	1802588-02	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1802588-02	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
MW-20-5	1802588-02	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
MW-20-5	1802588-02	4-Bromofluorobenzene (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
MW-20-5	1802588-02	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-5	1802588-02	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
MW-20-5	1802588-02	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-5	1802588-02	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-5	1802588-02	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-5	1802588-02	Styrene	1/26/2018	0.25	Y	y	vj		0.50	0.12	ug/L
MW-20-5	1802588-02	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-5	1802588-02	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-5	1802588-02	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1802588-02	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-5	1802588-02	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1802588-02	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1802588-02	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1802588-02	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1802588-02	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1802588-02	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-5	1802588-02	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-5	1802588-02	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-5	1802588-02	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-5	1802588-02	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-5	1802588-02	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-5	1802588-02	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-5	1802588-02	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
MW-20-5	1802588-02	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1802588-02	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-20-5	1802588-02	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
MW-20-5	1802588-02	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1802588-02	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1802588-02	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-5	1802588-02	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1802588-02	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1802588-02	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1802588-02	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1802588-02	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1802588-02	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1802588-02	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1802588-02	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-20-5	1802588-02	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-012318	1802588-11	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-012318	1802588-11	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
SB-1-012318	1802588-11	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-012318	1802588-11	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-012318	1802588-11	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-012318	1802588-11	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
SB-1-012318	1802588-11	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L
SB-1-012318	1802588-11	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
SB-1-012318	1802588-11	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
SB-1-012318	1802588-11	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-012318	1802588-11	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
SB-1-012318	1802588-11	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
SB-1-012318	1802588-11	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
SB-1-012318	1802588-11	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-1-012318	1802588-11	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-012318	1802588-11	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
SB-1-012318	1802588-11	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-012318	1802588-11	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-012318	1802588-11	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-012318	1802588-11	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-012318	1802588-11	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-012318	1802588-11	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-012318	1802588-11	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
SB-1-012318	1802588-11	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
SB-1-012318	1802588-11	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
SB-1-012318	1802588-11	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
SB-1-012318	1802588-11	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
SB-1-012318	1802588-11	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
SB-1-012318	1802588-11	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
SB-1-012318	1802588-11	4-Bromofluorobenzene (Surrogate)	1/26/2018	9.5	Y	y	vs				ug/L
SB-1-012318	1802588-11	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
SB-1-012318	1802588-11	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	11	Y	y	vs				ug/L
SB-1-012318	1802588-11	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-1-012318	1802588-11	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
SB-1-012318	1802588-11	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
SB-1-012318	1802588-11	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
SB-1-012318	1802588-11	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-1-012318	1802588-11	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
SB-1-012318	1802588-11	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
SB-1-012318	1802588-11	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
SB-1-012318	1802588-11	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
SB-1-012318	1802588-11	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
SB-1-012318	1802588-11	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
SB-1-012318	1802588-11	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-012318	1802588-11	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-012318	1802588-11	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-012318	1802588-11	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-1-012318	1802588-11	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-012318	1802588-11	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-012318	1802588-11	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-1-012318	1802588-11	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-012318	1802588-11	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-012318	1802588-11	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RI	MDL	Units
SB-1-012318	1802588-11	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-1-012318	1802588-11	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
SB-1-012318	1802588-11	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-012318	1802588-11	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-012318	1802588-11	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-012318	1802588-11	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-1-012318	1802588-11	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-1-012318	1802588-11	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-1-012318	1802588-11	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-012318	1802588-11	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-012318	1802588-11	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-012318	1802588-11	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-012318	1802588-11	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-012318	1802588-11	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-012318	1802588-11	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-012318	1802588-11	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-012318	1802588-11	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	Nitrobenzene	1/26/2018	0	Y	y	v				ug/L
TB-1-012318	1802588-01	2-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-012318	1802588-01	Methyl acrylate	1/26/2018	0	Y	y	v				ug/L
TB-1-012318	1802588-01	Chloroacetonitrile	1/26/2018	0	Y	y	v				ug/L
TB-1-012318	1802588-01	4-Bromofluorobenzene (Surrogate)	1/26/2018	10	Y	y	v s				ug/L
TB-1-012318	1802588-01	1,1-Dichloropropanone	1/26/2018	0	Y	y	v				ug/L
TB-1-012318	1802588-01	tert-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-012318	1802588-01	Bromomethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-012318	1802588-01	n-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	sec-Butylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-012318	1802588-01	2-Nitropropane	1/26/2018	0	Y	y	v				ug/L
TB-1-012318	1802588-01	1-Chlorobutane	1/26/2018	0	Y	y	v				ug/L
TB-1-012318	1802588-01	1,2,3-Trichloropropane	1/26/2018	1	Y	n	u		1.0	0.78	ug/L
TB-1-012318	1802588-01	1,2-Dibromo-3-chloropropane	1/26/2018	1	Y	n	u		1.0	0.89	ug/L
TB-1-012318	1802588-01	Carbon tetrachloride	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	4-Chlorotoluene	1/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-1-012318	1802588-01	Chloromethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-012318	1802588-01	Bromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-012318	1802588-01	Bromobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	Benzene	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-012318	1802588-01	Chloroform	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	Chloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	Chlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	Dibromochloromethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-1-012318	1802588-01	Methyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	cis-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	trans-1,3-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-012318	1802588-01	Ethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	Hexachlorobutadiene	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-012318	1802588-01	Isopropylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	Toluene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	Methylene chloride	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-012318	1802588-01	1,3-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-012318	1802588-01	Naphthalene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-1-012318	1802588-01	n-Propylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-1-012318	1802588-01	Styrene	1/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-1-012318	1802588-01	1,2,4-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	1,1,2,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	Toluene-d8 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
TB-1-012318	1802588-01	p-Isopropyltoluene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	1,1-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	1,2-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-012318	1802588-01	Dibromomethane	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-1-012318	1802588-01	1,2-Dibromoethane	1/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-1-012318	1802588-01	Bromoform	1/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-1-012318	1802588-01	Bromodichloromethane	1/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-012318	1802588-01	1,3-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-1-012318	1802588-01	1,1-Dichloropropene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-012318	1802588-01	Dichlorodifluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	2,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-012318	1802588-01	1,2-Dichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	1,1-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-012318	1802588-01	cis-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-012318	1802588-01	trans-1,2-Dichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-012318	1802588-01	1,2-Dichloropropane	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	Tetrachloroethene	1/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-1-012318	1802588-01	1,4-Dichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-012318	1802588-01	Methyl methacrylate	1/26/2018	5	Y	n	u		5.0	1.2	ug/L
TB-1-012318	1802588-01	Ethyl t-butyl ether	1/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-1-012318	1802588-01	1,1,1,2-Tetrachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-012318	1802588-01	Hexachloroethane	1/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-012318	1802588-01	2-Hexanone	1/26/2018	10	Y	n	u		10	5.0	ug/L
TB-1-012318	1802588-01	Methacrylonitrile	1/26/2018	10	Y	n	u		10	2.3	ug/L
TB-1-012318	1802588-01	Methyl ethyl ketone	1/26/2018	10	Y	n	u		10	3.3	ug/L
TB-1-012318	1802588-01	Diethyl ether	1/26/2018	2	Y	n	u		2.0	0.33	ug/L
TB-1-012318	1802588-01	Methyl isobutyl ketone	1/26/2018	10	Y	n	u		10	2.4	ug/L
TB-1-012318	1802588-01	Ethyl methacrylate	1/26/2018	4	Y	n	u		4.0	1.3	ug/L
TB-1-012318	1802588-01	Pentachloroethane	1/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-1-012318	1802588-01	Propionitrile	1/26/2018	20	Y	n	u		20	6.2	ug/L
TB-1-012318	1802588-01	Tetrahydrofuran	1/26/2018	20	Y	n	u		20	5.2	ug/L
TB-1-012318	1802588-01	p- & m-Xylenes	1/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-1-012318	1802588-01	o-Xylene	1/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-012318	1802588-01	1,2-Dichloroethane-d4 (Surrogate)	1/26/2018	10	Y	y	vs				ug/L
TB-1-012318	1802588-01	Methyl iodide	1/26/2018	2	Y	n	u		2.0	1.1	ug/L
TB-1-012318	1802588-01	1,3,5-Trimethylbenzene	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	1,2,3-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-012318	1802588-01	1,2,4-Trichlorobenzene	1/26/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-012318	1802588-01	1,1,1-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-012318	1802588-01	1,1,2-Trichloroethane	1/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-012318	1802588-01	Trichloroethene	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-012318	1802588-01	Trichlorofluoromethane	1/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-012318	1802588-01	1,1,2-Trichloro-1,2,2-trifluoroethane	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-012318	1802588-01	Vinyl chloride	1/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-012318	1802588-01	Acetone	1/26/2018	10	Y	n	u		10	6.6	ug/L
TB-1-012318	1802588-01	Acrylonitrile	1/26/2018	5	Y	n	u		5.0	1.5	ug/L
TB-1-012318	1802588-01	Allyl chloride	1/26/2018	5	Y	n	u		5.0	0.47	ug/L
TB-1-012318	1802588-01	t-Amyl Methyl ether	1/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-012318	1802588-01	t-Butyl alcohol	1/26/2018	10	Y	n	u		10	9.4	ug/L
TB-1-012318	1802588-01	Carbon disulfide	1/26/2018	1	Y	n	u		1.0	0.48	ug/L
TB-1-012318	1802588-01	trans-1,4-Dichloro-2-butene	1/26/2018	5	Y	n	u		5.0	1.8	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-1Q18	1802588-03	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-1-012318	1802588-10	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-2	1802588-06	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-3	1802588-05	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-4	1802588-04	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-5	1802588-02	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
SB-1-012318	1802588-11	Hexavalent Chromium	1/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

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Analytical Method											
EPA-200.8											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Total Recoverable Chromium		2	Y	y	vj	U	3.0	0.50	ug/L
EB-2-012418	1802744-12	Total Recoverable Chromium		1.2	Y	y	vj	U	3.0	0.50	ug/L
MW-14-1	1802744-06	Total Recoverable Chromium		1.7	Y	y	vj	U	3.0	0.50	ug/L
MW-14-2	1802744-05	Total Recoverable Chromium		1.4	Y	y	vj	U	3.0	0.50	ug/L
MW-14-3	1802744-04	Total Recoverable Chromium		1.4	Y	y	vj	U	3.0	0.50	ug/L
MW-26-1	1802744-11	Total Recoverable Chromium		1.6	Y	y	vj	U	3.0	0.50	ug/L
MW-26-2	1802744-09	Total Recoverable Chromium		2.1	Y	y	vj	U	3.0	0.50	ug/L

Analytical Method											
EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Perchlorate		3	Y	y	vj		4.0	0.58	ug/L
EB-2-012418	1802744-12	Perchlorate		4	Y	n	u		4.0	0.58	ug/L
MW-14-1	1802744-06	Perchlorate		3.7	Y	y	vj		4.0	0.58	ug/L
MW-14-2	1802744-05	Perchlorate		4.9	Y	y	v		4.0	0.58	ug/L
MW-14-3	1802744-04	Perchlorate		5.8	Y	y	v		4.0	0.58	ug/L
MW-14-4	1802744-03	Perchlorate		4.6	Y	y	v		4.0	0.58	ug/L
MW-14-5	1802744-02	Perchlorate		4	Y	n	u		4.0	0.58	ug/L
MW-19-1	1802744-08	Perchlorate		4	Y	n	u		4.0	0.58	ug/L
MW-19-2	1802744-07	Perchlorate		3.7	Y	y	vj		4.0	0.58	ug/L
MW-26-1	1802744-11	Perchlorate		1.3	Y	y	vj		4.0	0.58	ug/L
MW-26-2	1802744-09	Perchlorate		3.2	Y	y	vj		4.0	0.58	ug/L

Analytical Method											
EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Acetone		10	Y	n	u		10	6.6	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-2-1Q18	1802744-10	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-1Q18	1802744-10	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-1Q18	1802744-10	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
DUP-2-1Q18	1802744-10	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-1Q18	1802744-10	2-Hexanone		10	Y	n	u		10	5.0	ug/L
DUP-2-1Q18	1802744-10	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-1Q18	1802744-10	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
DUP-2-1Q18	1802744-10	Trichloroethene		0.19	Y	y	vj		0.50	0.19	ug/L
DUP-2-1Q18	1802744-10	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
DUP-2-1Q18	1802744-10	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-1Q18	1802744-10	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
DUP-2-1Q18	1802744-10	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
DUP-2-1Q18	1802744-10	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-1Q18	1802744-10	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
DUP-2-1Q18	1802744-10	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
DUP-2-1Q18	1802744-10	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
DUP-2-1Q18	1802744-10	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-1Q18	1802744-10	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
DUP-2-1Q18	1802744-10	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
DUP-2-1Q18	1802744-10	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
DUP-2-1Q18	1802744-10	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-1Q18	1802744-10	Chloroform		1.4	Y	y	v		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-1Q18	1802744-10	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-1Q18	1802744-10	Propionitrile		20	Y	n	u		20	6.2	ug/L
DUP-2-1Q18	1802744-10	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-1Q18	1802744-10	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
DUP-2-1Q18	1802744-10	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-2-1Q18	1802744-10	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
DUP-2-1Q18	1802744-10	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
DUP-2-1Q18	1802744-10	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-1Q18	1802744-10	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-1Q18	1802744-10	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-1Q18	1802744-10	4-Bromofluorobenzene (Surrogate)		9.9	Y	y	v s				ug/L
DUP-2-1Q18	1802744-10	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
DUP-2-1Q18	1802744-10	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-2-1Q18	1802744-10	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
DUP-2-1Q18	1802744-10	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
DUP-2-1Q18	1802744-10	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-1Q18	1802744-10	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
DUP-2-1Q18	1802744-10	Toluene-d8 (Surrogate)		10	Y	y	v s				ug/L
DUP-2-1Q18	1802744-10	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RI	MDL	Units
DUP-2-1Q18	1802744-10	Chloroacetonitrile		0	Y	y	v				ug/L
DUP-2-1Q18	1802744-10	1-Chlorobutane		0	Y	y	v				ug/L
DUP-2-1Q18	1802744-10	1,1-Dichloropropanone		0	Y	y	v				ug/L
DUP-2-1Q18	1802744-10	Methyl acrylate		0	Y	y	v				ug/L
DUP-2-1Q18	1802744-10	Nitrobenzene		0	Y	y	v				ug/L
DUP-2-1Q18	1802744-10	2-Nitropropane		0	Y	y	v				ug/L
DUP-2-1Q18	1802744-10	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
DUP-2-1Q18	1802744-10	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	v s				ug/L
DUP-2-1Q18	1802744-10	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-1Q18	1802744-10	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-1Q18	1802744-10	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
DUP-2-1Q18	1802744-10	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-1Q18	1802744-10	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-1Q18	1802744-10	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-1Q18	1802744-10	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-1Q18	1802744-10	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
DUP-2-1Q18	1802744-10	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-1Q18	1802744-10	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
DUP-2-1Q18	1802744-10	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-1Q18	1802744-10	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
DUP-2-1Q18	1802744-10	Toluene		0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Tetrachloroethene		2.3	Y	y	v		0.50	0.23	ug/L
DUP-2-1Q18	1802744-10	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-1Q18	1802744-10	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-1Q18	1802744-10	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
DUP-2-1Q18	1802744-10	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
DUP-2-1Q18	1802744-10	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-1Q18	1802744-10	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-1Q18	1802744-10	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-1Q18	1802744-10	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-1Q18	1802744-10	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-1Q18	1802744-10	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
EB-2-012418	1802744-12	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
EB-2-012418	1802744-12	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
EB-2-012418	1802744-12	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
EB-2-012418	1802744-12	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
EB-2-012418	1802744-12	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
EB-2-012418	1802744-12	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
EB-2-012418	1802744-12	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
EB-2-012418	1802744-12	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-012418	1802744-12	Tetrachloroethene		0.5	Y	n	u		0.50	0.23	ug/L
EB-2-012418	1802744-12	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
EB-2-012418	1802744-12	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
EB-2-012418	1802744-12	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
EB-2-012418	1802744-12	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
EB-2-012418	1802744-12	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
EB-2-012418	1802744-12	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
EB-2-012418	1802744-12	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
EB-2-012418	1802744-12	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
EB-2-012418	1802744-12	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
EB-2-012418	1802744-12	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
EB-2-012418	1802744-12	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
EB-2-012418	1802744-12	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-2-012418	1802744-12	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
EB-2-012418	1802744-12	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
EB-2-012418	1802744-12	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
EB-2-012418	1802744-12	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
EB-2-012418	1802744-12	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
EB-2-012418	1802744-12	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
EB-2-012418	1802744-12	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-012418	1802744-12	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
EB-2-012418	1802744-12	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	Methyl acrylate		0	Y	y	v				ug/L
EB-2-012418	1802744-12	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
EB-2-012418	1802744-12	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
EB-2-012418	1802744-12	Propionitrile		20	Y	n	u		20	6.2	ug/L
EB-2-012418	1802744-12	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
EB-2-012418	1802744-12	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
EB-2-012418	1802744-12	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
EB-2-012418	1802744-12	1,2-Dichloroethane-d4 (Surrogate)		9.7	Y	y	v s				ug/L
EB-2-012418	1802744-12	Toluene-d8 (Surrogate)		10	Y	y	v s				ug/L
EB-2-012418	1802744-12	4-Bromofluorobenzene (Surrogate)		9.4	Y	y	v s				ug/L
EB-2-012418	1802744-12	Chloroacetonitrile		0	Y	y	v				ug/L
EB-2-012418	1802744-12	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
EB-2-012418	1802744-12	1,1-Dichloropropanone		0	Y	y	v				ug/L
EB-2-012418	1802744-12	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
EB-2-012418	1802744-12	Nitrobenzene		0	Y	y	v				ug/L
EB-2-012418	1802744-12	2-Nitropropane		0	Y	y	v				ug/L
EB-2-012418	1802744-12	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
EB-2-012418	1802744-12	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
EB-2-012418	1802744-12	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
EB-2-012418	1802744-12	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
EB-2-012418	1802744-12	Trichloroethene		0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-012418	1802744-12	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
EB-2-012418	1802744-12	1-Chlorobutane		0	Y	y	v				ug/L
EB-2-012418	1802744-12	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
EB-2-012418	1802744-12	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
EB-2-012418	1802744-12	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
EB-2-012418	1802744-12	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
EB-2-012418	1802744-12	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
EB-2-012418	1802744-12	Chloroform		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
EB-2-012418	1802744-12	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
EB-2-012418	1802744-12	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
EB-2-012418	1802744-12	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
EB-2-012418	1802744-12	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
EB-2-012418	1802744-12	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
EB-2-012418	1802744-12	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
EB-2-012418	1802744-12	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
EB-2-012418	1802744-12	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
EB-2-012418	1802744-12	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
EB-2-012418	1802744-12	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
EB-2-012418	1802744-12	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
EB-2-012418	1802744-12	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
EB-2-012418	1802744-12	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-012418	1802744-12	2-Hexanone		10	Y	n	u		10	5.0	ug/L
EB-2-012418	1802744-12	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
EB-2-012418	1802744-12	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
EB-2-012418	1802744-12	Acetone		10	Y	n	u		10	6.6	ug/L
MW-14-1	1802744-06	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-1	1802744-06	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-14-1	1802744-06	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-1	1802744-06	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-1	1802744-06	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1802744-06	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-1	1802744-06	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-1	1802744-06	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1802744-06	Methyl t-butyl ether		0.19	Y	y	v j		0.50	0.14	ug/L
MW-14-1	1802744-06	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-1	1802744-06	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-1	1802744-06	Acetone		10	Y	n	u		10	6.6	ug/L
MW-14-1	1802744-06	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1802744-06	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	Tetrachloroethene		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-1	1802744-06	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1802744-06	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-1	1802744-06	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1802744-06	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1802744-06	Trichloroethene		0.71	Y	y	v		0.50	0.19	ug/L
MW-14-1	1802744-06	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-14-1	1802744-06	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1802744-06	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/l
MW-14-1	1802744-06	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-1	1802744-06	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-1	1802744-06	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-14-1	1802744-06	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-14-1	1802744-06	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-14-1	1802744-06	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-1	1802744-06	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-14-1	1802744-06	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-14-1	1802744-06	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-14-1	1802744-06	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-1	1802744-06	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-14-1	1802744-06	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-14-1	1802744-06	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-1	1802744-06	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-14-1	1802744-06	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-1	1802744-06	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1802744-06	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-14-1	1802744-06	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-1	1802744-06	Chloroform		0.33	Y	y	vj		0.50	0.14	ug/L
MW-14-1	1802744-06	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-1	1802744-06	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-1	1802744-06	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-1	1802744-06	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-14-1	1802744-06	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-1	1802744-06	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-1	1802744-06	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-14-1	1802744-06	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-14-1	1802744-06	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1802744-06	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-1	1802744-06	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1802744-06	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-1	1802744-06	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-1	1802744-06	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1802744-06	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1802744-06	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1802744-06	2-Nitropropane		0	Y	y	v				ug/L
MW-14-1	1802744-06	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1802744-06	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1802744-06	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-1	1802744-06	Nitrobenzene		0	Y	y	v				ug/L
MW-14-1	1802744-06	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-14-1	1802744-06	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-14-1	1802744-06	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	vs				ug/L
MW-14-1	1802744-06	Toluene-d8 (Surrogate)		10	Y	y	vs				ug/L
MW-14-1	1802744-06	4-Bromofluorobenzene (Surrogate)		11	Y	y	vs				ug/L
MW-14-1	1802744-06	Chloroacetonitrile		0	Y	y	v				ug/L
MW-14-1	1802744-06	1-Chlorobutane		0	Y	y	v				ug/L
MW-14-1	1802744-06	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-14-1	1802744-06	Methyl acrylate		0	Y	y	v				ug/L
MW-14-1	1802744-06	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-14-2	1802744-05	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1802744-05	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1802744-05	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1802744-05	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1802744-05	Styrene		0.5	Y	n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1802744-05	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1802744-05	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1802744-05	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1802744-05	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1802744-05	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1802744-05	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1802744-05	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1802744-05	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1802744-05	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-14-2	1802744-05	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1802744-05	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-14-2	1802744-05	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1802744-05	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-2	1802744-05	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1802744-05	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1802744-05	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	1,1-Dichloroethane		0.22	Y	y	vj		0.50	0.15	ug/L
MW-14-2	1802744-05	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1802744-05	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1802744-05	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1802744-05	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-14-2	1802744-05	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1802744-05	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-14-2	1802744-05	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-14-2	1802744-05	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-2	1802744-05	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-14-2	1802744-05	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-14-2	1802744-05	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-14-2	1802744-05	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1802744-05	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-14-2	1802744-05	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-2	1802744-05	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-14-2	1802744-05	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-14-2	1802744-05	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-2	1802744-05	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-14-2	1802744-05	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-14-2	1802744-05	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-14-2	1802744-05	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1802744-05	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	vs				ug/L
MW-14-2	1802744-05	Toluene-d8 (Surrogate)		9.9	Y	y	vs				ug/L
MW-14-2	1802744-05	4-Bromofluorobenzene (Surrogate)		9.6	Y	y	vs				ug/L
MW-14-2	1802744-05	Chloroacetonitrile		0	Y	y	v				ug/L
MW-14-2	1802744-05	1-Chlorobutane		0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1802744-05	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-14-2	1802744-05	2-Nitropropane		0	Y	y	v				ug/L
MW-14-2	1802744-05	Nitrobenzene		0	Y	y	v				ug/L
MW-14-2	1802744-05	Methyl acrylate		0	Y	y	v				ug/L
MW-14-2	1802744-05	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-14-2	1802744-05	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1802744-05	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1802744-05	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-14-2	1802744-05	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
MW-14-2	1802744-05	Chloroform		0.36	Y	y	vj		0.50	0.14	ug/L
MW-14-2	1802744-05	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1802744-05	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1802744-05	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-2	1802744-05	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-14-2	1802744-05	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1802744-05	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1802744-05	Tetrachloroethene		0.31	Y	y	vj		0.50	0.23	ug/L
MW-14-2	1802744-05	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-14-2	1802744-05	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1802744-05	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1802744-05	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1802744-05	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1802744-05	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1802744-05	Trichloroethene		1.4	Y	y	v		0.50	0.19	ug/L
MW-14-2	1802744-05	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1802744-05	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1802744-05	Acetone		10	Y	n	u		10	6.6	ug/L
MW-14-2	1802744-05	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1802744-05	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1802744-05	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-14-3	1802744-04	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-14-3	1802744-04	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-3	1802744-04	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-14-3	1802744-04	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1802744-04	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-14-3	1802744-04	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-14-3	1802744-04	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-14-3	1802744-04	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-14-3	1802744-04	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-14-3	1802744-04	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1802744-04	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
MW-14-3	1802744-04	Acetone		10	Y	n	u		10	6.6	ug/L
MW-14-3	1802744-04	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1802744-04	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-14-3	1802744-04	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1802744-04	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-14-3	1802744-04	1,2-Dichloroethane-d4 (Surrogate)		9.8	Y	y	vs				ug/L
MW-14-3	1802744-04	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1802744-04	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	2-Nitropropane		0	Y	y	v				ug/L
MW-14-3	1802744-04	Nitrobenzene		0	Y	y	v				ug/L
MW-14-3	1802744-04	Methyl acrylate		0	Y	y	v				ug/L
MW-14-3	1802744-04	1-Chlorobutane		0	Y	y	v				ug/L
MW-14-3	1802744-04	Chloroacetonitrile		0	Y	y	v				ug/L
MW-14-3	1802744-04	Toluene-d8 (Surrogate)		9.9	Y	y	vs				ug/L
MW-14-3	1802744-04	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-3	1802744-04	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1802744-04	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-14-3	1802744-04	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-14-3	1802744-04	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-14-3	1802744-04	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-3	1802744-04	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-14-3	1802744-04	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-14-3	1802744-04	4-Bromofluorobenzene (Surrogate)		9.9	Y	y	vs				ug/L
MW-14-3	1802744-04	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1802744-04	Chloroform		0.94	Y	y	v		0.50	0.14	ug/L
MW-14-3	1802744-04	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1802744-04	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1802744-04	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1802744-04	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-14-3	1802744-04	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1802744-04	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-3	1802744-04	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1802744-04	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1802744-04	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1802744-04	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1802744-04	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1802744-04	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1802744-04	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1802744-04	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-14-3	1802744-04	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	1,1-Dichloroethane		0.56	Y	y	v		0.50	0.15	ug/L
MW-14-3	1802744-04	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1802744-04	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1802744-04	Trichloroethene		2.1	Y	y	v		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1802744-04	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1802744-04	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1802744-04	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1802744-04	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1802744-04	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1802744-04	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1802744-04	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1802744-04	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1802744-04	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-3	1802744-04	Tetrachloroethene		1.1	Y	y	v		0.50	0.23	ug/L
MW-14-3	1802744-04	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1802744-04	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1802744-04	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1802744-04	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-14-3	1802744-04	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1802744-04	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1802744-04	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1802744-04	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1802744-03	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1802744-03	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1802744-03	Acetone		10	Y	n	u		10	6.6	ug/L
MW-14-4	1802744-03	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-14-4	1802744-03	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-14-4	1802744-03	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1802744-03	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1802744-03	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1802744-03	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-14-4	1802744-03	Nitrobenzene		0	Y	y	v				ug/L
MW-14-4	1802744-03	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	Trichloroethene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1802744-03	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-4	1802744-03	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-14-4	1802744-03	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-14-4	1802744-03	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-14-4	1802744-03	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1802744-03	1,2-Dichloroethane-d4 (Surrogate)		11	Y	y	v s				ug/L
MW-14-4	1802744-03	Toluene-d8 (Surrogate)		10	Y	y	v s				ug/L
MW-14-4	1802744-03	4-Bromofluorobenzene (Surrogate)		9.3	Y	y	v s				ug/L
MW-14-4	1802744-03	Chloroacetonitrile		0	Y	y	v				ug/L
MW-14-4	1802744-03	1-Chlorobutane		0	Y	y	v				ug/L
MW-14-4	1802744-03	Methyl acrylate		0	Y	y	v				ug/L
MW-14-4	1802744-03	2-Nitropropane		0	Y	y	v				ug/L
MW-14-4	1802744-03	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1802744-03	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1802744-03	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-14-4	1802744-03	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1802744-03	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1802744-03	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1802744-03	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1802744-03	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1802744-03	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1802744-03	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1802744-03	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1802744-03	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1802744-03	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-14-4	1802744-03	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1802744-03	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1802744-03	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1802744-03	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1802744-03	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1802744-03	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-14-4	1802744-03	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-14-4	1802744-03	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1802744-03	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1802744-03	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1802744-03	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1802744-03	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1802744-03	Chloroform		0.2	Y	y	vj		0.50	0.14	ug/L
MW-14-4	1802744-03	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1802744-03	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-4	1802744-03	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-14-4	1802744-03	Tetrachloroethene		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1802744-03	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1802744-03	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1802744-03	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1802744-03	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1802744-03	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1802744-03	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1802744-03	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1802744-03	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1802744-03	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1802744-03	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1802744-03	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1802744-03	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1802744-03	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1802744-03	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-14-4	1802744-03	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1802744-03	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1802744-03	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-14-4	1802744-03	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1802744-03	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-14-4	1802744-03	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1802744-03	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-4	1802744-03	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1802744-03	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-14-4	1802744-03	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-14-4	1802744-03	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1802744-03	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-14-4	1802744-03	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-14-4	1802744-03	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1802744-03	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-14-4	1802744-03	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-14-5	1802744-02	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1802744-02	Styrene		0.65	Y	y	v		0.50	0.12	ug/L
MW-14-5	1802744-02	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1802744-02	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	Tetrachloroethene		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1802744-02	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1802744-02	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1802744-02	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1802744-02	Trichloroethene		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1802744-02	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1802744-02	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1802744-02	Acetone		15	Y	y	v		10	6.6	ug/L
MW-14-5	1802744-02	Acrylonitrile		6.3	Y	y	v		5.0	1.5	ug/L
MW-14-5	1802744-02	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-14-5	1802744-02	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1802744-02	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-14-5	1802744-02	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1802744-02	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1802744-02	2-Nitropropane		0	Y	y	v				ug/L
MW-14-5	1802744-02	Nitrobenzene		0	Y	y	v				ug/L
MW-14-5	1802744-02	Methyl acrylate		0	Y	y	v				ug/L
MW-14-5	1802744-02	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-14-5	1802744-02	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1802744-02	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1802744-02	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1802744-02	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	Methyl t-butyl ether		0.46	Y	y	v j		0.50	0.14	ug/L
MW-14-5	1802744-02	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1802744-02	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1802744-02	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1802744-02	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1802744-02	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1802744-02	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1802744-02	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-5	1802744-02	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1802744-02	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1802744-02	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1802744-02	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-5	1802744-02	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1802744-02	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-14-5	1802744-02	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-14-5	1802744-02	Chloroform		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-14-5	1802744-02	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1802744-02	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1802744-02	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1802744-02	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1802744-02	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-14-5	1802744-02	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-14-5	1802744-02	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-14-5	1802744-02	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	4-Bromofluorobenzene (Surrogate)		9.5	Y	y	vs				ug/L
MW-14-5	1802744-02	1-Chlorobutane		0	Y	y	v				ug/L
MW-14-5	1802744-02	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1802744-02	Chloroacetonitrile		0	Y	y	v				ug/L
MW-14-5	1802744-02	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1802744-02	Toluene-d8 (Surrogate)		10	Y	y	vs				ug/L
MW-14-5	1802744-02	1,2-Dichloroethane-d4 (Surrogate)		11	Y	y	vs				ug/L
MW-14-5	1802744-02	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1802744-02	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-14-5	1802744-02	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-14-5	1802744-02	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-14-5	1802744-02	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-5	1802744-02	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1802744-02	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1802744-02	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1802744-02	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-14-5	1802744-02	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-14-5	1802744-02	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Data	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1802744-02	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-5	1802744-02	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-14-5	1802744-02	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-14-5	1802744-02	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1802744-08	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-19-1	1802744-08	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-19-1	1802744-08	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-19-1	1802744-08	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-19-1	1802744-08	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-1	1802744-08	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-19-1	1802744-08	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-19-1	1802744-08	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-1	1802744-08	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-19-1	1802744-08	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-19-1	1802744-08	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1802744-08	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	v s				ug/L
MW-19-1	1802744-08	Toluene-d8 (Surrogate)		10	Y	y	v s				ug/L
MW-19-1	1802744-08	4-Bromofluorobenzene (Surrogate)		10	Y	y	v s				ug/L
MW-19-1	1802744-08	2-Nitropropane		0	Y	y	v				ug/L
MW-19-1	1802744-08	1-Chlorobutane		0	Y	y	v				ug/L
MW-19-1	1802744-08	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-19-1	1802744-08	Methyl acrylate		0	Y	y	v				ug/L
MW-19-1	1802744-08	Nitrobenzene		0	Y	y	v				ug/L
MW-19-1	1802744-08	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	Chloroacetonitrile		0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1802744-08	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1802744-08	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-19-1	1802744-08	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-19-1	1802744-08	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1802744-08	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-19-1	1802744-08	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-19-1	1802744-08	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1802744-08	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1802744-08	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1802744-08	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1802744-08	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1802744-08	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1802744-08	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1802744-08	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-19-1	1802744-08	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-1	1802744-08	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Data	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1802744-08	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1802744-08	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-19-1	1802744-08	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	Chloroform		0.89	Y	y	v		0.50	0.14	ug/L
MW-19-1	1802744-08	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1802744-08	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1802744-08	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1802744-08	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-19-1	1802744-08	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1802744-08	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1802744-08	Acetone		10	Y	n	u		10	6.6	ug/L
MW-19-1	1802744-08	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1802744-08	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-19-1	1802744-08	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1802744-08	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-19-1	1802744-08	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-19-1	1802744-08	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-19-1	1802744-08	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-19-1	1802744-08	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1802744-08	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-19-1	1802744-08	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
MW-19-1	1802744-08	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-19-1	1802744-08	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1802744-08	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1802744-08	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1802744-08	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1802744-08	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-19-1	1802744-08	Trichloroethene		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1802744-08	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1802744-08	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1802744-08	Tetrachloroethene		0.5	Y	n	u		0.50	0.23	ug/L
MW-19-1	1802744-08	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1802744-08	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1802744-08	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1802744-08	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1802744-07	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1802744-07	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-19-2	1802744-07	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-19-2	1802744-07	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-19-2	1802744-07	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1802744-07	Acetone		10	Y	n	u		10	6.6	ug/L
MW-19-2	1802744-07	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1802744-07	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1802744-07	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-19-2	1802744-07	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-19-2	1802744-07	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-19-2	1802744-07	Trichloroethene		1.5	Y	y	v		0.50	0.19	ug/L
MW-19-2	1802744-07	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1802744-07	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1802744-07	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1802744-07	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1802744-07	Tetrachloroethene		3.1	Y	y	v		0.50	0.23	ug/L
MW-19-2	1802744-07	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1802744-07	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1802744-07	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1802744-07	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-19-2	1802744-07	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
MW-19-2	1802744-07	2-Nitropropane		0	Y	y	v				ug/L
MW-19-2	1802744-07	Methyl acrylate		0	Y	y	v				ug/L
MW-19-2	1802744-07	1-Chlorobutane		0	Y	y	v				ug/L
MW-19-2	1802744-07	Chloroacetonitrile		0	Y	y	v				ug/L
MW-19-2	1802744-07	4-Bromofluorobenzene (Surrogate)		10	Y	y	v s				ug/L
MW-19-2	1802744-07	Toluene-d8 (Surrogate)		10	Y	y	v s				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1802744-07	1,2-Dichloroethane-d4 (Surrogate)		11	Y	y	v s				ug/L
MW-19-2	1802744-07	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1802744-07	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-19-2	1802744-07	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-19-2	1802744-07	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-19-2	1802744-07	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-2	1802744-07	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-19-2	1802744-07	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-19-2	1802744-07	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-2	1802744-07	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-19-2	1802744-07	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-19-2	1802744-07	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-19-2	1802744-07	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1802744-07	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-19-2	1802744-07	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-19-2	1802744-07	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1802744-07	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1802744-07	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-19-2	1802744-07	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-19-2	1802744-07	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-19-2	1802744-07	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-19-2	1802744-07	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-19-2	1802744-07	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1802744-07	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1802744-07	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1802744-07	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1802744-07	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1802744-07	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-2	1802744-07	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-19-2	1802744-07	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1802744-07	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-19-2	1802744-07	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1802744-07	Nitrobenzene		0	Y	y	v				ug/L
MW-19-2	1802744-07	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-19-2	1802744-07	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1802744-07	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1802744-07	Chloroform		2.7	Y	y	v		0.50	0.14	ug/L
MW-19-2	1802744-07	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1802744-07	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1802744-07	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1802744-07	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1802744-07	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	1,1-Dichloroethane		0.15	Y	y	v j		0.50	0.15	ug/L
MW-19-2	1802744-07	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1802744-07	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1802744-07	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1802744-07	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1802744-07	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-19-2	1802744-07	cis-1,2-Dichloroethene		0.45	Y	y	v j		0.50	0.27	ug/L
MW-19-2	1802744-07	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1802744-11	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1802744-11	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1802744-11	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1802744-11	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1802744-11	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1802744-11	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-26-1	1802744-11	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1802744-11	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-26-1	1802744-11	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-26-1	1802744-11	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	2-Nitropropane		0	Y	y	v				ug/L
MW-26-1	1802744-11	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1802744-11	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-26-1	1802744-11	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1802744-11	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-26-1	1802744-11	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
MW-26-1	1802744-11	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-26-1	1802744-11	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1802744-11	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-26-1	1802744-11	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-26-1	1802744-11	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	Chloroform		0.22	Y	y	vj		0.50	0.14	ug/L
MW-26-1	1802744-11	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1802744-11	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-26-1	1802744-11	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1802744-11	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-26-1	1802744-11	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-26-1	1802744-11	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-26-1	1802744-11	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1802744-11	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1802744-11	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-26-1	1802744-11	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1802744-11	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-26-1	1802744-11	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-26-1	1802744-11	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-26-1	1802744-11	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-26-1	1802744-11	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-26-1	1802744-11	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-26-1	1802744-11	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-26-1	1802744-11	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1802744-11	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-26-1	1802744-11	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-26-1	1802744-11	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1802744-11	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	vs				ug/L
MW-26-1	1802744-11	Toluene-d8 (Surrogate)		10	Y	y	vs				ug/L
MW-26-1	1802744-11	4-Bromofluorobenzene (Surrogate)		10	Y	y	vs				ug/L
MW-26-1	1802744-11	Chloroacetonitrile		0	Y	y	v				ug/L
MW-26-1	1802744-11	1-Chlorobutane		0	Y	y	v				ug/L
MW-26-1	1802744-11	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-26-1	1802744-11	Methyl acrylate		0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1802744-11	Nitrobenzene		0	Y	y	v				ug/L
MW-26-1	1802744-11	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-26-1	1802744-11	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-26-1	1802744-11	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	Tetrachloroethene		0.41	Y	y	v j		0.50	0.23	ug/L
MW-26-1	1802744-11	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1802744-11	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1802744-11	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1802744-11	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1802744-11	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-26-1	1802744-11	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-26-1	1802744-11	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1802744-11	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1802744-11	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1802744-11	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1802744-11	Acetone		10	Y	n	u		10	6.6	ug/L
MW-26-1	1802744-11	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
MW-26-1	1802744-11	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-26-1	1802744-11	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1802744-11	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-26-1	1802744-11	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-26-1	1802744-11	Trichloroethene		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1802744-09	Nitrobenzene		0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1802744-09	1-Chlorobutane		0	Y	y	v				ug/L
MW-26-2	1802744-09	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1802744-09	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
MW-26-2	1802744-09	cis-1,2-Dichloroethene		0.32	Y	y	v j		0.50	0.27	ug/L
MW-26-2	1802744-09	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1802744-09	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1802744-09	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
MW-26-2	1802744-09	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1802744-09	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1802744-09	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1802744-09	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L
MW-26-2	1802744-09	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1802744-09	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
MW-26-2	1802744-09	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
MW-26-2	1802744-09	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1802744-09	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1802744-09	Methyl acrylate		0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1802744-09	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1802744-09	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
MW-26-2	1802744-09	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
MW-26-2	1802744-09	Bromofom		0.5	Y	n	u		0.50	0.46	ug/L
MW-26-2	1802744-09	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-26-2	1802744-09	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1802744-09	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1802744-09	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
MW-26-2	1802744-09	Chloroform		2	Y	y	v		0.50	0.14	ug/L
MW-26-2	1802744-09	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1802744-09	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
MW-26-2	1802744-09	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-26-2	1802744-09	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
MW-26-2	1802744-09	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
MW-26-2	1802744-09	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
MW-26-2	1802744-09	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1802744-09	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
MW-26-2	1802744-09	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
MW-26-2	1802744-09	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
MW-26-2	1802744-09	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1802744-09	2-Hexanone		10	Y	n	u		10	5.0	ug/L
MW-26-2	1802744-09	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
MW-26-2	1802744-09	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
MW-26-2	1802744-09	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
MW-26-2	1802744-09	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
MW-26-2	1802744-09	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L
MW-26-2	1802744-09	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1802744-09	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
MW-26-2	1802744-09	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
MW-26-2	1802744-09	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1802744-09	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	v s				ug/L
MW-26-2	1802744-09	Toluene-d8 (Surrogate)		10	Y	y	v s				ug/L
MW-26-2	1802744-09	4-Bromofluorobenzene (Surrogate)		9.3	Y	y	v s				ug/L
MW-26-2	1802744-09	Chloroacetonitrile		0	Y	y	v				ug/L
MW-26-2	1802744-09	2-Nitropropane		0	Y	y	v				ug/L
MW-26-2	1802744-09	1,1-Dichloropropanone		0	Y	y	v				ug/L
MW-26-2	1802744-09	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
MW-26-2	1802744-09	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1802744-09	Propionitrile		20	Y	n	u		20	6.2	ug/L
MW-26-2	1802744-09	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
MW-26-2	1802744-09	Tetrachloroethene		2.7	Y	y	v		0.50	0.23	ug/L
MW-26-2	1802744-09	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1802744-09	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1802744-09	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1802744-09	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1802744-09	Trichloroethene		0.44	Y	y	v j		0.50	0.19	ug/L
MW-26-2	1802744-09	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
MW-26-2	1802744-09	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1802744-09	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
MW-26-2	1802744-09	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1802744-09	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
MW-26-2	1802744-09	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1802744-09	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
MW-26-2	1802744-09	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
MW-26-2	1802744-09	Acetone		10	Y	n	u		10	6.6	ug/L
MW-26-2	1802744-09	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1802744-09	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1802744-09	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	Ethyl methacrylate		4	Y	n	u		4.0	1.3	ug/L
TB-2-012418	1802744-01	Pentachloroethane		2	Y	n	u	UJ	2.0	0.63	ug/L
TB-2-012418	1802744-01	Methyl isobutyl ketone		10	Y	n	u		10	2.4	ug/L
TB-2-012418	1802744-01	Methyl iodide		2	Y	n	u	UJ	2.0	1.1	ug/L
TB-2-012418	1802744-01	Methyl ethyl ketone		10	Y	n	u		10	3.3	ug/L
TB-2-012418	1802744-01	Methacrylonitrile		10	Y	n	u		10	2.3	ug/L
TB-2-012418	1802744-01	2-Hexanone		10	Y	n	u		10	5.0	ug/L
TB-2-012418	1802744-01	Hexachloroethane		0.5	Y	n	u		0.50	0.11	ug/L
TB-2-012418	1802744-01	Ethyl t-butyl ether		0.5	Y	n	u		0.50	0.32	ug/L
TB-2-012418	1802744-01	Methyl methacrylate		5	Y	n	u		5.0	1.2	ug/L
TB-2-012418	1802744-01	Diethyl ether		2	Y	n	u		2.0	0.33	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-2-012418	1802744-01	trans-1,4-Dichloro-2-butene		5	Y	n	u	UJ	5.0	1.8	ug/L
TB-2-012418	1802744-01	Carbon disulfide		1	Y	n	u		1.0	0.48	ug/L
TB-2-012418	1802744-01	t-Butyl alcohol		10	Y	n	u		10	9.4	ug/L
TB-2-012418	1802744-01	t-Amyl Methyl ether		0.5	Y	n	u		0.50	0.19	ug/L
TB-2-012418	1802744-01	Allyl chloride		5	Y	n	u		5.0	0.47	ug/L
TB-2-012418	1802744-01	Acrylonitrile		5	Y	n	u		5.0	1.5	ug/L
TB-2-012418	1802744-01	Acetone		10	Y	n	u		10	6.6	ug/L
TB-2-012418	1802744-01	Vinyl chloride		0.5	Y	n	u		0.50	0.18	ug/L
TB-2-012418	1802744-01	1,2,4-Trimethylbenzene		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	Chloroform		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	1,3,5-Trimethylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Methyl acrylate		0	Y	y	v				ug/L
TB-2-012418	1802744-01	1,1-Dichloropropene		0.5	Y	n	u		0.50	0.19	ug/L
TB-2-012418	1802744-01	Chloromethane		0.5	Y	n	u		0.50	0.11	ug/L
TB-2-012418	1802744-01	1,1,2-Trichloro-1,2,2-trifluoroethane		0.5	Y	n	u		0.50	0.19	ug/L
TB-2-012418	1802744-01	4-Chlorotoluene		0.5	Y	n	u		0.50	0.093	ug/L
TB-2-012418	1802744-01	Dibromochloromethane		0.5	Y	n	u		0.50	0.22	ug/L
TB-2-012418	1802744-01	1,2-Dibromo-3-chloropropane		1	Y	n	u		1.0	0.89	ug/L
TB-2-012418	1802744-01	Bromochloromethane		0.5	Y	n	u		0.50	0.27	ug/L
TB-2-012418	1802744-01	Bromobenzene		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	Benzene		0.5	Y	n	u		0.50	0.11	ug/L
TB-2-012418	1802744-01	2-Chlorotoluene		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Nitrobenzene		0	Y	y	v				ug/L
TB-2-012418	1802744-01	Propionitrile		20	Y	n	u		20	6.2	ug/L
TB-2-012418	1802744-01	1,1-Dichloropropanone		0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-2-012418	1802744-01	1-Chlorobutane		0	Y	y	v				ug/L
TB-2-012418	1802744-01	Chloroacetonitrile		0	Y	y	v				ug/L
TB-2-012418	1802744-01	4-Bromofluorobenzene (Surrogate)		10	Y	y	vs				ug/L
TB-2-012418	1802744-01	Toluene-d8 (Surrogate)		10	Y	y	vs				ug/L
TB-2-012418	1802744-01	1,2-Dichloroethane-d4 (Surrogate)		10	Y	y	vs				ug/L
TB-2-012418	1802744-01	o-Xylene		0.5	Y	n	u		0.50	0.13	ug/L
TB-2-012418	1802744-01	p- & m-Xylenes		0.5	Y	n	u		0.50	0.34	ug/L
TB-2-012418	1802744-01	Tetrahydrofuran		20	Y	n	u		20	5.2	ug/L
TB-2-012418	1802744-01	2-Nitropropane		0	Y	y	v				ug/L
TB-2-012418	1802744-01	Dibromomethane		0.5	Y	n	u		0.50	0.23	ug/L
TB-2-012418	1802744-01	1,2-Dichloropropane		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	trans-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	cis-1,2-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
TB-2-012418	1802744-01	1,1-Dichloroethene		0.5	Y	n	u		0.50	0.27	ug/L
TB-2-012418	1802744-01	1,2-Dichloroethane		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	1,1-Dichloroethane		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	Dichlorodifluoromethane		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	1,4-Dichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	trans-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.13	ug/L
TB-2-012418	1802744-01	1,2-Dichlorobenzene		0.5	Y	n	u		0.50	0.21	ug/L
TB-2-012418	1802744-01	cis-1,3-Dichloropropene		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	1,2-Dibromoethane		0.5	Y	n	u		0.50	0.22	ug/L
TB-2-012418	1802744-01	Chlorobenzene		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Carbon tetrachloride		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	Bromomethane		0.5	Y	n	u	UJ	0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-2-012418	1802744-01	Bromoform		0.5	Y	n	u		0.50	0.46	ug/L
TB-2-012418	1802744-01	Bromodichloromethane		0.5	Y	n	u		0.50	0.20	ug/L
TB-2-012418	1802744-01	sec-Butylbenzene		0.5	Y	n	u		0.50	0.13	ug/L
TB-2-012418	1802744-01	tert-Butylbenzene		0.5	Y	n	u		0.50	0.18	ug/L
TB-2-012418	1802744-01	Chloroethane		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	1,3-Dichlorobenzene		0.5	Y	n	u		0.50	0.16	ug/L
TB-2-012418	1802744-01	n-Propylbenzene		0.5	Y	n	u		0.50	0.12	ug/L
TB-2-012418	1802744-01	Trichlorofluoromethane		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Trichloroethene		0.5	Y	n	u		0.50	0.19	ug/L
TB-2-012418	1802744-01	1,1,2-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
TB-2-012418	1802744-01	1,1,1-Trichloroethane		0.5	Y	n	u		0.50	0.21	ug/L
TB-2-012418	1802744-01	1,2,4-Trichlorobenzene		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	1,2,3-Trichlorobenzene		0.5	Y	n	u		0.50	0.19	ug/L
TB-2-012418	1802744-01	Toluene		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	Tetrachloroethene		0.5	Y	n	u		0.50	0.23	ug/L
TB-2-012418	1802744-01	1,1,2,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.17	ug/L
TB-2-012418	1802744-01	1,3-Dichloropropane		0.5	Y	n	u		0.50	0.13	ug/L
TB-2-012418	1802744-01	Styrene		0.5	Y	n	u		0.50	0.12	ug/L
TB-2-012418	1802744-01	2,2-Dichloropropane		0.5	Y	n	u		0.50	0.18	ug/L
TB-2-012418	1802744-01	Naphthalene		0.5	Y	n	u		0.50	0.16	ug/L
TB-2-012418	1802744-01	Methyl t-butyl ether		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Methylene chloride		0.5	Y	n	u		0.50	0.21	ug/L
TB-2-012418	1802744-01	p-Isopropyltoluene		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Isopropylbenzene		0.5	Y	n	u		0.50	0.14	ug/L
TB-2-012418	1802744-01	Hexachlorobutadiene		0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-2-012418	1802744-01	Ethylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	n-Butylbenzene		0.5	Y	n	u		0.50	0.15	ug/L
TB-2-012418	1802744-01	1,2,3-Trichloropropane		1	Y	n	u		1.0	0.78	ug/L
TB-2-012418	1802744-01	1,1,1,2-Tetrachloroethane		0.5	Y	n	u		0.50	0.21	ug/L

Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-1Q18	1802744-10	Hexavalent Chromium		#####	Y	y	vj		0.0020	0.0007	mg/L
EB-2-012418	1802744-12	Hexavalent Chromium		0.002	Y	n	u		0.0020	0.0007	mg/L
MW-14-1	1802744-06	Hexavalent Chromium		0.002	Y	n	u		0.0020	0.0007	mg/L
MW-14-2	1802744-05	Hexavalent Chromium		0.0009	Y	y	vj		0.0020	0.0007	mg/L
MW-14-3	1802744-04	Hexavalent Chromium		0.002	Y	n	u		0.0020	0.0007	mg/L
MW-26-1	1802744-11	Hexavalent Chromium		0.002	Y	n	u		0.0020	0.0007	mg/L
MW-26-2	1802744-09	Hexavalent Chromium		0.002	Y	n	u		0.0020	0.0007	mg/L

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Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-IQ18	1802838-03	Total Recoverable Chromium	1/30/2018	1.8	Y	y	v j		3.0	0.50	ug/L
EB-3-012518	1802838-13	Total Recoverable Chromium	1/30/2018	0.86	Y	y	v j		3.0	0.50	ug/L
MW-17-2	1802838-05	Total Recoverable Chromium	1/30/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-3	1802838-04	Total Recoverable Chromium	1/30/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-4	1802838-02	Total Recoverable Chromium	1/30/2018	1.7	Y	y	v j		3.0	0.50	ug/L
MW-18-2	1802838-12	Total Recoverable Chromium	1/30/2018	3	Y	n	u		3.0	0.50	ug/L
MW-18-3	1802838-11	Total Recoverable Chromium	1/30/2018	2.1	Y	y	v j		3.0	0.50	ug/L
MW-18-4	1802838-10	Total Recoverable Chromium	1/30/2018	1.6	Y	y	v j		3.0	0.50	ug/L
MW-3-2	1802838-08	Total Recoverable Chromium	1/30/2018	1.4	Y	y	v j		3.0	0.50	ug/L
MW-3-3	1802838-07	Total Recoverable Chromium	1/30/2018	2.1	Y	y	v j		3.0	0.50	ug/L
MW-3-4	1802838-06	Total Recoverable Chromium	1/30/2018	31	Y	y	v		3.0	0.50	ug/L

Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-IQ18	1802838-03	Perchlorate	2/13/2018	4	Y	y	v		4.0	0.58	ug/L
EB-3-012518	1802838-13	Perchlorate	2/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-2	1802838-05	Perchlorate	2/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-3	1802838-04	Perchlorate	2/14/2018	5.1	Y	y	v		4.0	0.58	ug/L
MW-17-4	1802838-02	Perchlorate	2/13/2018	4.9	Y	y	v		4.0	0.58	ug/L
MW-18-2	1802838-12	Perchlorate	2/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-18-3	1802838-11	Perchlorate	2/13/2018	3.9	Y	y	v j		4.0	0.58	ug/L
MW-18-4	1802838-10	Perchlorate	2/11/2018	18	Y	y	v		8.0	1.2	ug/L
MW-18-5	1802838-09	Perchlorate	2/13/2018	4	Y	n	u		4.0	0.58	ug/L
MW-3-2	1802838-08	Perchlorate	2/13/2018	9.3	Y	y	v		4.0	0.58	ug/L

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Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1802838-07	Perchlorate	2/12/2018	1.4	Y	y	v j		4.0	0.58	ug/L
MW-3-4	1802838-06	Perchlorate	2/10/2018	0.62	Y	y	v j		4.0	0.58	ug/L

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-IQ18	1802838-03	Trichloroethene	1/29/2018	0.51	Y	y	v		0.50	0.19	ug/L
Dup-3-IQ18	1802838-03	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
Dup-3-IQ18	1802838-03	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-3-IQ18	1802838-03	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-3-IQ18	1802838-03	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
Dup-3-IQ18	1802838-03	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-IQ18	1802838-03	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
Dup-3-IQ18	1802838-03	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-3-IQ18	1802838-03	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-3-IQ18	1802838-03	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-3-IQ18	1802838-03	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-IQ18	1802838-03	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
Dup-3-IQ18	1802838-03	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
Dup-3-IQ18	1802838-03	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
Dup-3-IQ18	1802838-03	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
Dup-3-IQ18	1802838-03	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
Dup-3-IQ18	1802838-03	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-IQ18	1802838-03	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
Dup-3-IQ18	1802838-03	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
Dup-3-IQ18	1802838-03	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
Dup-3-IQ18	1802838-03	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-3-IQ18	1802838-03	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-IQ18	1802838-03	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-3-IQ18	1802838-03	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
Dup-3-IQ18	1802838-03	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
Dup-3-IQ18	1802838-03	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
Dup-3-IQ18	1802838-03	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-3-IQ18	1802838-03	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	11	Y	y	v s				ug/L
Dup-3-IQ18	1802838-03	Toluene-d8 (Surrogate)	1/29/2018	9.8	Y	y	v s				ug/L
Dup-3-IQ18	1802838-03	4-Bromofluorobenzene (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
Dup-3-IQ18	1802838-03	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
Dup-3-IQ18	1802838-03	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
Dup-3-IQ18	1802838-03	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
Dup-3-IQ18	1802838-03	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
Dup-3-IQ18	1802838-03	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
Dup-3-IQ18	1802838-03	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
Dup-3-IQ18	1802838-03	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
Dup-3-IQ18	1802838-03	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
Dup-3-IQ18	1802838-03	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L

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Dup-3-IQ18	1802838-03	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
Dup-3-IQ18	1802838-03	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-3-IQ18	1802838-03	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-3-IQ18	1802838-03	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-3-IQ18	1802838-03	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-IQ18	1802838-03	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
Dup-3-IQ18	1802838-03	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
Dup-3-IQ18	1802838-03	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
Dup-3-IQ18	1802838-03	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-3-IQ18	1802838-03	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-3-IQ18	1802838-03	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-3-IQ18	1802838-03	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-3-IQ18	1802838-03	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
Dup-3-IQ18	1802838-03	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-IQ18	1802838-03	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-IQ18	1802838-03	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-IQ18	1802838-03	Tetrachloroethene	1/29/2018	0.29	Y	y	v j		0.50	0.23	ug/L
Dup-3-IQ18	1802838-03	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-IQ18	1802838-03	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-3-IQ18	1802838-03	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
Dup-3-IQ18	1802838-03	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-3-IQ18	1802838-03	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-3-IQ18	1802838-03	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-3-IQ18	1802838-03	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-3-IQ18	1802838-03	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-IQ18	1802838-03	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-IQ18	1802838-03	Chloroform	1/29/2018	0.4	Y	y	v j		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
Dup-3-IQ18	1802838-03	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-IQ18	1802838-03	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-IQ18	1802838-03	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-3-IQ18	1802838-03	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-012518	1802838-13	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-012518	1802838-13	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-012518	1802838-13	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-012518	1802838-13	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-012518	1802838-13	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-012518	1802838-13	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-012518	1802838-13	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-012518	1802838-13	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-012518	1802838-13	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-012518	1802838-13	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-012518	1802838-13	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-012518	1802838-13	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-012518	1802838-13	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
EB-3-012518	1802838-13	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	Benzene	1/29/2018	0.14	Y	y	v j	J	0.50	0.11	ug/L
EB-3-012518	1802838-13	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-012518	1802838-13	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-012518	1802838-13	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-3-012518	1802838-13	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-012518	1802838-13	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-012518	1802838-13	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-012518	1802838-13	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-012518	1802838-13	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-012518	1802838-13	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-012518	1802838-13	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-012518	1802838-13	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-012518	1802838-13	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-012518	1802838-13	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-012518	1802838-13	p- & m-Xylenes	1/29/2018	0.38	Y	y	v j		0.50	0.34	ug/L
EB-3-012518	1802838-13	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
EB-3-012518	1802838-13	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
EB-3-012518	1802838-13	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-3-012518	1802838-13	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-012518	1802838-13	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
EB-3-012518	1802838-13	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
EB-3-012518	1802838-13	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
EB-3-012518	1802838-13	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-3-012518	1802838-13	Toluene-d8 (Surrogate)	1/29/2018	9.8	Y	y	v s				ug/L
EB-3-012518	1802838-13	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
EB-3-012518	1802838-13	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-3-012518	1802838-13	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
EB-3-012518	1802838-13	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
EB-3-012518	1802838-13	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
EB-3-012518	1802838-13	o-Xylene	1/29/2018	0.2	Y	y	v j		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-012518	1802838-13	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	9.9	Y	y	v s				ug/L
EB-3-012518	1802838-13	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-3-012518	1802838-13	4-Bromofluorobenzene (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
EB-3-012518	1802838-13	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
EB-3-012518	1802838-13	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
EB-3-012518	1802838-13	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
EB-3-012518	1802838-13	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
EB-3-012518	1802838-13	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
EB-3-012518	1802838-13	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
EB-3-012518	1802838-13	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
EB-3-012518	1802838-13	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-012518	1802838-13	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-012518	1802838-13	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-012518	1802838-13	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-012518	1802838-13	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-012518	1802838-13	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-012518	1802838-13	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-012518	1802838-13	Toluene	1/29/2018	0.72	Y	y	v		0.50	0.17	ug/L
EB-3-012518	1802838-13	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-012518	1802838-13	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
EB-3-012518	1802838-13	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-012518	1802838-13	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-012518	1802838-13	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-012518	1802838-13	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-012518	1802838-13	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-012518	1802838-13	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
EB-3-012518	1802838-13	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
EB-3-012518	1802838-13	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
EB-3-012518	1802838-13	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
EB-3-012518	1802838-13	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-012518	1802838-13	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-012518	1802838-13	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-012518	1802838-13	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
EB-3-012518	1802838-13	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1802838-05	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-2	1802838-05	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1802838-05	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1802838-05	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-17-2	1802838-05	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-2	1802838-05	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1802838-05	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-17-2	1802838-05	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-17-2	1802838-05	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-17-2	1802838-05	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-17-2	1802838-05	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-2	1802838-05	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1802838-05	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1802838-05	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1802838-05	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-2	1802838-05	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1802838-05	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1802838-05	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-17-2	1802838-05	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1802838-05	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-2	1802838-05	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1802838-05	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-17-2	1802838-05	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1802838-05	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1802838-05	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-2	1802838-05	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1802838-05	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1802838-05	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1802838-05	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1802838-05	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1802838-05	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1802838-05	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-2	1802838-05	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1802838-05	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-2	1802838-05	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-17-2	1802838-05	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-2	1802838-05	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-2	1802838-05	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-2	1802838-05	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-2	1802838-05	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-2	1802838-05	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1802838-05	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-17-2	1802838-05	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-17-2	1802838-05	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1802838-05	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	12	Y	y	vs				ug/L
MW-17-2	1802838-05	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1802838-05	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1802838-05	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1802838-05	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1802838-05	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-17-2	1802838-05	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1802838-05	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1802838-05	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-2	1802838-05	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	vs				ug/L
MW-17-2	1802838-05	4-Bromofluorobenzene (Surrogate)	1/29/2018	9.8	Y	y	vs				ug/L
MW-17-2	1802838-05	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-17-2	1802838-05	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-2	1802838-05	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-17-2	1802838-05	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-17-2	1802838-05	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-2	1802838-05	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1802838-05	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1802838-05	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1802838-05	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1802838-05	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1802838-05	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1802838-05	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1802838-05	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1802838-05	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1802838-05	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1802838-05	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-2	1802838-05	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1802838-05	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-2	1802838-05	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1802838-05	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1802838-05	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RI	MDL	Units
MW-17-3	1802838-04	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1802838-04	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-17-3	1802838-04	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-3	1802838-04	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-3	1802838-04	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-3	1802838-04	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-3	1802838-04	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-17-3	1802838-04	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-17-3	1802838-04	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-17-3	1802838-04	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-17-3	1802838-04	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-3	1802838-04	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-3	1802838-04	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-3	1802838-04	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1802838-04	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1802838-04	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1802838-04	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1802838-04	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1802838-04	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1802838-04	Tetrachloroethene	1/29/2018	0.28	Y	y	v j		0.50	0.23	ug/L
MW-17-3	1802838-04	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L

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MW-17-3	1802838-04	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1802838-04	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1802838-04	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1802838-04	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1802838-04	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-17-3	1802838-04	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1802838-04	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-3	1802838-04	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-17-3	1802838-04	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1802838-04	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1802838-04	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-3	1802838-04	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	Trichloroethene	1/29/2018	1.3	Y	y	v		0.50	0.19	ug/L
MW-17-3	1802838-04	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1802838-04	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1802838-04	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1802838-04	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

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MW-17-3	1802838-04	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1802838-04	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-3	1802838-04	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1802838-04	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1802838-04	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1802838-04	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-3	1802838-04	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-17-3	1802838-04	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1802838-04	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-3	1802838-04	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-17-3	1802838-04	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-17-3	1802838-04	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-17-3	1802838-04	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
MW-17-3	1802838-04	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
MW-17-3	1802838-04	4-Bromofluorobenzene (Surrogate)	1/29/2018	9.6	Y	y	v s				ug/L
MW-17-3	1802838-04	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-17-3	1802838-04	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-17-3	1802838-04	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-17-3	1802838-04	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1802838-04	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-3	1802838-04	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-3	1802838-04	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1802838-04	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-3	1802838-04	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-3	1802838-04	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-3	1802838-04	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1802838-04	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1802838-04	Chloroform	1/29/2018	0.28	Y	y	v j		0.50	0.14	ug/L
MW-17-3	1802838-04	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1802838-04	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1802838-04	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1802838-04	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1802838-04	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1802838-04	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1802838-02	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1802838-02	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-17-4	1802838-02	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-4	1802838-02	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-17-4	1802838-02	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-4	1802838-02	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L

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MW-17-4	1802838-02	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1802838-02	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1802838-02	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1802838-02	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1802838-02	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-4	1802838-02	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1802838-02	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1802838-02	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1802838-02	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1802838-02	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1802838-02	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1802838-02	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1802838-02	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1802838-02	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1802838-02	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-4	1802838-02	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L

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MW-17-4	1802838-02	Tetrachloroethene	1/29/2018	0.47	Y	y	v j		0.50	0.23	ug/L
MW-17-4	1802838-02	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1802838-02	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1802838-02	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1802838-02	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1802838-02	Trichloroethene	1/29/2018	0.81	Y	y	v		0.50	0.19	ug/L
MW-17-4	1802838-02	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1802838-02	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-4	1802838-02	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1802838-02	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1802838-02	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1802838-02	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1802838-02	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1802838-02	Chloroform	1/29/2018	0.6	Y	y	v		0.50	0.14	ug/L
MW-17-4	1802838-02	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1802838-02	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1802838-02	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1802838-02	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-4	1802838-02	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1802838-02	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-4	1802838-02	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1802838-02	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1802838-02	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-4	1802838-02	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-4	1802838-02	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1802838-02	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-17-4	1802838-02	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-17-4	1802838-02	4-Bromofluorobenzene (Surrogate)	1/29/2018	10	Y	y	vs				ug/L
MW-17-4	1802838-02	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	vs				ug/L
MW-17-4	1802838-02	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	11	Y	y	vs				ug/L
MW-17-4	1802838-02	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1802838-02	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-4	1802838-02	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-17-4	1802838-02	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-17-4	1802838-02	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-4	1802838-02	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-4	1802838-02	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1802838-02	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-17-4	1802838-02	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-17-4	1802838-02	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-17-4	1802838-02	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-17-4	1802838-02	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1802838-02	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L

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MW-17-4	1802838-02	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-4	1802838-02	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1802838-02	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-4	1802838-02	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-4	1802838-02	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1802838-12	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1802838-12	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1802838-12	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1802838-12	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1802838-12	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1802838-12	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-2	1802838-12	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1802838-12	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1802838-12	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1802838-12	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1802838-12	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1802838-12	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1802838-12	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1802838-12	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1802838-12	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1802838-12	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-2	1802838-12	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1802838-12	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1802838-12	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1802838-12	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-18-2	1802838-12	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1802838-12	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1802838-12	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-2	1802838-12	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1802838-12	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1802838-12	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1802838-12	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1802838-12	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1802838-12	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1802838-12	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-2	1802838-12	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
MW-18-2	1802838-12	Toluene-d8 (Surrogate)	1/29/2018	9.9	Y	y	v s				ug/L
MW-18-2	1802838-12	4-Bromofluorobenzene (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
MW-18-2	1802838-12	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-18-2	1802838-12	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-18-2	1802838-12	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-18-2	1802838-12	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-18-2	1802838-12	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-18-2	1802838-12	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-18-2	1802838-12	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-2	1802838-12	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-2	1802838-12	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-2	1802838-12	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-2	1802838-12	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-2	1802838-12	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
MW-18-2	1802838-12	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L	
MW-18-2	1802838-12	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L	
MW-18-2	1802838-12	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L	
MW-18-2	1802838-12	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L	
MW-18-2	1802838-12	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-18-2	1802838-12	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L	
MW-18-2	1802838-12	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L	
MW-18-2	1802838-12	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L	
MW-18-2	1802838-12	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L	
MW-18-2	1802838-12	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L	
MW-18-2	1802838-12	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L	
MW-18-2	1802838-12	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-18-2	1802838-12	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-18-2	1802838-12	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
MW-18-2	1802838-12	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L	
MW-18-2	1802838-12	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L	
MW-18-2	1802838-12	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-18-2	1802838-12	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
MW-18-2	1802838-12	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L	
MW-18-2	1802838-12	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L	
MW-18-2	1802838-12	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
MW-18-2	1802838-12	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-18-2	1802838-12	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-18-2	1802838-12	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-18-2	1802838-12	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-2	1802838-12	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1802838-12	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1802838-12	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1802838-12	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1802838-12	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1802838-12	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1802838-12	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1802838-12	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1802838-12	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-2	1802838-12	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1802838-12	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1802838-12	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1802838-12	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1802838-12	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1802838-12	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1802838-12	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1802838-12	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1802838-12	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-2	1802838-12	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1802838-12	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1802838-11	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1802838-11	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1802838-11	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-3	1802838-11	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1802838-11	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-3	1802838-11	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1802838-11	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-3	1802838-11	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1802838-11	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1802838-11	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1802838-11	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1802838-11	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1802838-11	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1802838-11	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1802838-11	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-3	1802838-11	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1802838-11	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1802838-11	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1802838-11	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1802838-11	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1802838-11	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1802838-11	Carbon tetrachloride	1/29/2018	0.73	Y	y	v		0.50	0.17	ug/L
MW-18-3	1802838-11	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1802838-11	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1802838-11	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1802838-11	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1802838-11	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1802838-11	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1802838-11	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1802838-11	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1802838-11	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-18-3	1802838-11	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-18-3	1802838-11	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-18-3	1802838-11	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-18-3	1802838-11	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-18-3	1802838-11	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-3	1802838-11	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-3	1802838-11	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-3	1802838-11	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1802838-11	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1802838-11	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1802838-11	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1802838-11	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-3	1802838-11	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1802838-11	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1802838-11	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1802838-11	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1802838-11	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1802838-11	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-3	1802838-11	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-3	1802838-11	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-3	1802838-11	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-3	1802838-11	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-3	1802838-11	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-3	1802838-11	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-3	1802838-11	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1802838-11	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-3	1802838-11	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-3	1802838-11	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-18-3	1802838-11	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-18-3	1802838-11	4-Bromofluorobenzene (Surrogate)	1/29/2018	9.5	Y	y	vs				ug/L
MW-18-3	1802838-11	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-3	1802838-11	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-3	1802838-11	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-3	1802838-11	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1802838-11	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1802838-11	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-3	1802838-11	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1802838-11	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	9.6	Y	y	vs				ug/L
MW-18-3	1802838-11	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1802838-11	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-3	1802838-11	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1802838-11	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1802838-11	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1802838-11	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1802838-10	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1802838-10	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-4	1802838-10	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-4	1802838-10	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1802838-10	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1802838-10	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-18-4	1802838-10	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1802838-10	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-4	1802838-10	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-4	1802838-10	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-4	1802838-10	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-4	1802838-10	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1802838-10	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-4	1802838-10	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-4	1802838-10	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1802838-10	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-4	1802838-10	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-4	1802838-10	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1802838-10	4-Bromofluorobenzene (Surrogate)	1/29/2018	9	Y	y	v s				ug/L
MW-18-4	1802838-10	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-4	1802838-10	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1802838-10	Trichloroethene	1/29/2018	0.89	Y	y	v		0.50	0.19	ug/L
MW-18-4	1802838-10	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1802838-10	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-18-4	1802838-10	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-18-4	1802838-10	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-18-4	1802838-10	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-18-4	1802838-10	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-4	1802838-10	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-18-4	1802838-10	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-4	1802838-10	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1802838-10	Toluene-d8 (Surrogate)	1/29/2018	9.9	Y	y	v s				ug/L
MW-18-4	1802838-10	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	11	Y	y	v s				ug/L
MW-18-4	1802838-10	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1802838-10	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-4	1802838-10	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-4	1802838-10	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-4	1802838-10	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-4	1802838-10	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-4	1802838-10	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L

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MW-18-4	1802838-10	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-4	1802838-10	Chloroform	1/29/2018	1	Y	y	v		0.50	0.14	ug/L
MW-18-4	1802838-10	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1802838-10	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1802838-10	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-4	1802838-10	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-4	1802838-10	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-4	1802838-10	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-4	1802838-10	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-4	1802838-10	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1802838-10	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1802838-10	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1802838-10	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1802838-10	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1802838-10	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-4	1802838-10	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1802838-10	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1802838-10	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1802838-10	Carbon tetrachloride	1/29/2018	3.5	Y	y	v		0.50	0.17	ug/L
MW-18-4	1802838-10	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1802838-10	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-18-4	1802838-10	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1802838-10	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1802838-10	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1802838-10	Tetrachloroethene	1/29/2018	0.59	Y	y	v		0.50	0.23	ug/L
MW-18-4	1802838-10	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1802838-10	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1802838-10	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1802838-10	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1802838-10	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1802838-10	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1802838-10	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1802838-10	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1802838-10	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1802838-10	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1802838-10	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1802838-10	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1802838-10	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1802838-10	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1802838-10	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1802838-10	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1802838-10	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1802838-10	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-18-5	1802838-09	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1802838-09	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1802838-09	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1802838-09	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1802838-09	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1802838-09	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1802838-09	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1802838-09	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-5	1802838-09	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1802838-09	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1802838-09	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1802838-09	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1802838-09	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1802838-09	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1802838-09	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1802838-09	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1802838-09	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1802838-09	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1802838-09	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-5	1802838-09	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1802838-09	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1802838-09	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1802838-09	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1802838-09	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-5	1802838-09	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-5	1802838-09	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1802838-09	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-5	1802838-09	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1802838-09	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1802838-09	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1802838-09	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1802838-09	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1802838-09	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1802838-09	Toluene-d8 (Surrogate)	1/29/2018	9.9	Y	y	vs				ug/L
MW-18-5	1802838-09	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-5	1802838-09	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-18-5	1802838-09	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L

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MW-18-5	1802838-09	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-5	1802838-09	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-5	1802838-09	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-5	1802838-09	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-5	1802838-09	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-5	1802838-09	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-5	1802838-09	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	11	Y	y	vs				ug/L
MW-18-5	1802838-09	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1802838-09	4-Bromofluorobenzene (Surrogate)	1/29/2018	9.5	Y	y	vs				ug/L
MW-18-5	1802838-09	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-18-5	1802838-09	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-18-5	1802838-09	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-18-5	1802838-09	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-18-5	1802838-09	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-18-5	1802838-09	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-18-5	1802838-09	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-5	1802838-09	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1802838-09	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-5	1802838-09	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1802838-09	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1802838-09	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1802838-09	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1802838-09	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-5	1802838-09	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1802838-09	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-5	1802838-09	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1802838-09	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-5	1802838-09	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1802838-09	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1802838-09	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-5	1802838-09	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1802838-09	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-5	1802838-09	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-5	1802838-09	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-5	1802838-09	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-5	1802838-09	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-5	1802838-09	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-5	1802838-09	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1802838-08	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1802838-08	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1802838-08	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-2	1802838-08	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1802838-08	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1802838-08	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-2	1802838-08	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1802838-08	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1802838-08	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1802838-08	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1802838-08	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1802838-08	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1802838-08	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-3-2	1802838-08	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	11	Y	y	vs				ug/L
MW-3-2	1802838-08	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1802838-08	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-2	1802838-08	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-3-2	1802838-08	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-3-2	1802838-08	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-2	1802838-08	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-2	1802838-08	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-3-2	1802838-08	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-3-2	1802838-08	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-3-2	1802838-08	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1802838-08	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-2	1802838-08	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1802838-08	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-2	1802838-08	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-2	1802838-08	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-2	1802838-08	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-2	1802838-08	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-2	1802838-08	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-3-2	1802838-08	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1802838-08	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-3-2	1802838-08	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1802838-08	Chloroform	1/29/2018	0.46	Y	y	v j		0.50	0.14	ug/L
MW-3-2	1802838-08	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1802838-08	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1802838-08	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1802838-08	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1802838-08	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1802838-08	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-2	1802838-08	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1802838-08	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-3-2	1802838-08	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-3-2	1802838-08	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-3-2	1802838-08	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-3-2	1802838-08	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-3-2	1802838-08	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-3-2	1802838-08	4-Bromofluorobenzene (Surrogate)	1/29/2018	9.9	Y	y	v s				ug/L
MW-3-2	1802838-08	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-2	1802838-08	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1802838-08	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1802838-08	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1802838-08	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1802838-08	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1802838-08	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1802838-08	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1802838-08	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1802838-08	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1802838-08	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1802838-08	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1802838-08	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1802838-08	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1802838-08	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1802838-08	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1802838-08	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-2	1802838-08	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1802838-08	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	vs				ug/L
MW-3-3	1802838-07	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-3-3	1802838-07	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1802838-07	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-3	1802838-07	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-3	1802838-07	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-3-3	1802838-07	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1802838-07	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-3	1802838-07	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-3	1802838-07	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-3-3	1802838-07	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-3	1802838-07	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-3	1802838-07	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1802838-07	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-3	1802838-07	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1802838-07	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1802838-07	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1802838-07	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1802838-07	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1802838-07	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-3-3	1802838-07	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1802838-07	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1802838-07	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-3	1802838-07	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-3-3	1802838-07	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-3-3	1802838-07	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-3-3	1802838-07	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
MW-3-3	1802838-07	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-3-3	1802838-07	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-3-3	1802838-07	4-Bromofluorobenzene (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
MW-3-3	1802838-07	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-3	1802838-07	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	11	Y	y	v s				ug/L
MW-3-3	1802838-07	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-3	1802838-07	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-3-3	1802838-07	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-3-3	1802838-07	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-3	1802838-07	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-3	1802838-07	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-3-3	1802838-07	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-3-3	1802838-07	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-3-3	1802838-07	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1802838-07	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detact	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1802838-07	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1802838-07	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1802838-07	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-3	1802838-07	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-3	1802838-07	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-3	1802838-07	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-3	1802838-07	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1802838-07	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1802838-07	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1802838-07	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1802838-07	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1802838-07	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1802838-07	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-3	1802838-07	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1802838-07	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1802838-07	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1802838-07	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1802838-07	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1802838-07	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1802838-07	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1802838-07	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1802838-07	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1802838-07	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1802838-07	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1802838-07	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1802838-07	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1802838-07	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1802838-07	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1802838-07	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1802838-07	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1802838-07	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1802838-07	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1802838-07	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1802838-07	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1802838-07	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
MW-3-4	1802838-06	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
MW-3-4	1802838-06	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L

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MW-3-4	1802838-06	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-4	1802838-06	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-4	1802838-06	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
MW-3-4	1802838-06	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1802838-06	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-4	1802838-06	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-4	1802838-06	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1802838-06	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1802838-06	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1802838-06	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-4	1802838-06	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1802838-06	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1802838-06	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1802838-06	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-4	1802838-06	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1802838-06	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-4	1802838-06	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L
MW-3-4	1802838-06	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
MW-3-4	1802838-06	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L

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MW-3-4	1802838-06	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
MW-3-4	1802838-06	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
MW-3-4	1802838-06	4-Bromofluorobenzene (Surrogate)	1/29/2018	9	Y	y	v s				ug/L
MW-3-4	1802838-06	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
MW-3-4	1802838-06	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-4	1802838-06	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1802838-06	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
MW-3-4	1802838-06	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
MW-3-4	1802838-06	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
MW-3-4	1802838-06	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-4	1802838-06	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-4	1802838-06	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
MW-3-4	1802838-06	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
MW-3-4	1802838-06	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
MW-3-4	1802838-06	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
MW-3-4	1802838-06	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-4	1802838-06	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	12	Y	y	v s				ug/L
MW-3-4	1802838-06	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1802838-06	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1802838-06	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1802838-06	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-4	1802838-06	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1802838-06	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1802838-06	1,1-Dichloroethane	1/29/2018	0.21	Y	y	vj		0.50	0.15	ug/L
MW-3-4	1802838-06	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1802838-06	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1802838-06	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1802838-06	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1802838-06	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1802838-06	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-4	1802838-06	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-4	1802838-06	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-4	1802838-06	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1802838-06	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-4	1802838-06	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1802838-06	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1802838-06	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1802838-06	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1802838-06	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1802838-06	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L

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MW-3-4	1802838-06	1,1,2,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1802838-06	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1802838-06	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1802838-06	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1802838-06	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1802838-06	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1802838-06	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1802838-06	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-012518	1802838-01	2-Hexanone	1/29/2018	10	Y	n	u		10	5.0	ug/L
TB-3-012518	1802838-01	1,3,5-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	Methacrylonitrile	1/29/2018	10	Y	n	u		10	2.3	ug/L
TB-3-012518	1802838-01	Methyl ethyl ketone	1/29/2018	10	Y	n	u		10	3.3	ug/L
TB-3-012518	1802838-01	Benzene	1/29/2018	0.5	Y	n	u	UJ	0.50	0.11	ug/L
TB-3-012518	1802838-01	Methyl isobutyl ketone	1/29/2018	10	Y	n	u		10	2.4	ug/L
TB-3-012518	1802838-01	Methyl iodide	1/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-3-012518	1802838-01	Carbon disulfide	1/29/2018	1	Y	n	u		1.0	0.48	ug/L
TB-3-012518	1802838-01	Propionitrile	1/29/2018	20	Y	n	u		20	6.2	ug/L
TB-3-012518	1802838-01	Tetrahydrofuran	1/29/2018	20	Y	n	u		20	5.2	ug/L
TB-3-012518	1802838-01	Methyl methacrylate	1/29/2018	5	Y	n	u		5.0	1.2	ug/L
TB-3-012518	1802838-01	Hexachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-012518	1802838-01	Ethyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-3-012518	1802838-01	Ethyl methacrylate	1/29/2018	4	Y	n	u		4.0	1.3	ug/L
TB-3-012518	1802838-01	Acrylonitrile	1/29/2018	5	Y	n	u		5.0	1.5	ug/L

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TB-3-012518	1802838-01	trans-1,4-Dichloro-2-butene	1/29/2018	5	Y	n	u		5.0	1.8	ug/L
TB-3-012518	1802838-01	t-Butyl alcohol	1/29/2018	10	Y	n	u		10	9.4	ug/L
TB-3-012518	1802838-01	t-Amyl Methyl ether	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-012518	1802838-01	Allyl chloride	1/29/2018	5	Y	n	u		5.0	0.47	ug/L
TB-3-012518	1802838-01	p- & m-Xylenes	1/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-3-012518	1802838-01	Bromobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	Vinyl chloride	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-012518	1802838-01	Acetone	1/29/2018	10	Y	n	u		10	6.6	ug/L
TB-3-012518	1802838-01	Diethyl ether	1/29/2018	2	Y	n	u		2.0	0.33	ug/L
TB-3-012518	1802838-01	1,2-Dibromo-3-chloropropane	1/29/2018	1	Y	n	u		1.0	0.89	ug/L
TB-3-012518	1802838-01	1,2,4-Trimethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	Chloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	Chloroform	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	Chlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	tert-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-012518	1802838-01	Carbon tetrachloride	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	Chloromethane	1/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-012518	1802838-01	2-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	sec-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-012518	1802838-01	2-Nitropropane	1/29/2018	0	Y	y	v				ug/L
TB-3-012518	1802838-01	Dibromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-012518	1802838-01	o-Xylene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-012518	1802838-01	Bromochloromethane	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-012518	1802838-01	Pentachloroethane	1/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-3-012518	1802838-01	Nitrobenzene	1/29/2018	0	Y	y	v				ug/L

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TB-3-012518	1802838-01	Methyl acrylate	1/29/2018	0	Y	y	v				ug/L
TB-3-012518	1802838-01	1,1-Dichloropropanone	1/29/2018	0	Y	y	v				ug/L
TB-3-012518	1802838-01	1-Chlorobutane	1/29/2018	0	Y	y	v				ug/L
TB-3-012518	1802838-01	Chloroacetonitrile	1/29/2018	0	Y	y	v				ug/L
TB-3-012518	1802838-01	4-Bromofluorobenzene (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
TB-3-012518	1802838-01	Toluene-d8 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
TB-3-012518	1802838-01	1,2-Dichloroethane-d4 (Surrogate)	1/29/2018	10	Y	y	v s				ug/L
TB-3-012518	1802838-01	4-Chlorotoluene	1/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-3-012518	1802838-01	1,4-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	cis-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	1,1,2-Trichloro-1,2,2-trifluoroethane	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-012518	1802838-01	2,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-012518	1802838-01	1,2-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	trans-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	cis-1,2-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-012518	1802838-01	1,1-Dichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-012518	1802838-01	1,2-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	trans-1,3-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-012518	1802838-01	Dichlorodifluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	1,1-Dichloropropene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-012518	1802838-01	1,3-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-012518	1802838-01	1,2-Dichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-012518	1802838-01	Dibromomethane	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-012518	1802838-01	1,2-Dibromoethane	1/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-012518	1802838-01	n-Butylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-3-012518	1802838-01	Bromomethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-012518	1802838-01	Bromodichloromethane	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-012518	1802838-01	Bromoform	1/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-3-012518	1802838-01	1,1-Dichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	Toluene	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	1,2,3-Trichloropropane	1/29/2018	1	Y	n	u		1.0	0.78	ug/L
TB-3-012518	1802838-01	Trichlorofluoromethane	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	Trichloroethene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-012518	1802838-01	1,1,2-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-012518	1802838-01	1,1,1-Trichloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-012518	1802838-01	1,3-Dichloropropane	1/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-012518	1802838-01	1,2,3-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-012518	1802838-01	Ethylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	Tetrachloroethene	1/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-012518	1802838-01	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-012518	1802838-01	Methylene chloride	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-012518	1802838-01	Styrene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-012518	1802838-01	n-Propylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-012518	1802838-01	Naphthalene	1/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-012518	1802838-01	Methyl t-butyl ether	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	1,1,1,2-Tetrachloroethane	1/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-012518	1802838-01	1,2,4-Trichlorobenzene	1/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-012518	1802838-01	p-Isopropyltoluene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	Isopropylbenzene	1/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-012518	1802838-01	Hexachlorobutadiene	1/29/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-IQ18	1802838-03	Hexavalent Chromium	1/25/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
EB-3-012518	1802838-13	Hexavalent Chromium	1/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-2	1802838-05	Hexavalent Chromium	1/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-3	1802838-04	Hexavalent Chromium	1/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-4	1802838-02	Hexavalent Chromium	1/25/2018	0.0021	Y	y	v		0.0020	0.0007	mg/L
MW-18-2	1802838-12	Hexavalent Chromium	1/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-18-3	1802838-11	Hexavalent Chromium	1/25/2018	0.0011	Y	y	v j		0.0020	0.0007	mg/L
MW-18-4	1802838-10	Hexavalent Chromium	1/25/2018	0.0013	Y	y	v j		0.0020	0.0007	mg/L
MW-3-2	1802838-08	Hexavalent Chromium	1/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-3	1802838-07	Hexavalent Chromium	1/25/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-3-4	1802838-06	Hexavalent Chromium	1/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

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Analytical Method		EPA-200.8										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
Dup-4-1Q18	1802960-05	Total Recoverable Chromium	1/30/2018	1.6	Y	y	v j	U	3.0	0.50	ug/L	
EB-4-012618	1802960-10	Total Recoverable Chromium	1/30/2018	1	Y	y	v j	U	3.0	0.50	ug/L	
MW-22-1	1802960-04	Total Recoverable Chromium	1/30/2018	1.5	Y	y	v j	U	3.0	0.50	ug/L	
MW-22-2	1802960-03	Total Recoverable Chromium	1/30/2018	2.6	Y	y	v j	U	3.0	0.50	ug/L	
MW-22-3	1802960-02	Total Recoverable Chromium	1/30/2018	3.6	Y	y	v	U	3.0	0.50	ug/L	
MW-24-1	1802960-09	Total Recoverable Chromium	1/30/2018	3.6	Y	y	v	U	3.0	0.50	ug/L	
MW-24-2	1802960-08	Total Recoverable Chromium	1/30/2018	2.1	Y	y	v j	U	3.0	0.50	ug/L	
MW-24-3	1802960-07	Total Recoverable Chromium	1/30/2018	1	Y	y	v j	U	3.0	0.50	ug/L	
MW-24-4	1802960-06	Total Recoverable Chromium	1/30/2018	0.89	Y	y	v j	U	3.0	0.50	ug/L	

Analytical Method		EPA-300.0										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
MW-24-1	1802960-09	Chloride	1/27/2018	91	Y	y	v		0.50	0.077	mg/L	
MW-24-1	1802960-09	Nitrate as N	1/27/2018	1.3	Y	y	v		0.10	0.021	mg/L	
MW-24-1	1802960-09	Sulfate	1/27/2018	53	Y	y	v		1.0	0.13	mg/L	

Analytical Method		EPA-314.0										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
Dup-4-1Q18	1802960-05	Perchlorate	2/14/2018	2.2	Y	y	v j		4.0	0.58	ug/L	
EB-4-012618	1802960-10	Perchlorate	2/14/2018	4	Y	n	u		4.0	0.58	ug/L	
MW-22-1	1802960-04	Perchlorate	2/14/2018	2.5	Y	y	v j		4.0	0.58	ug/L	
MW-22-2	1802960-03	Perchlorate	2/14/2018	2.8	Y	y	v j		4.0	0.58	ug/L	
MW-22-3	1802960-02	Perchlorate	2/14/2018	2.5	Y	y	v j		4.0	0.58	ug/L	
MW-24-1	1802960-09	Perchlorate	2/14/2018	16	Y	y	v		8.0	1.2	ug/L	
MW-24-2	1802960-08	Perchlorate	2/14/2018	2.2	Y	y	v j		4.0	0.58	ug/L	

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Analytical Method EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-3	1802960-07	Perchlorate	2/14/2018	4	Y	n	u		4.0	0.58	ug/L
Analytical Method EPA-353.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1802960-09	Nitrite as N	1/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
Analytical Method EPA-365.1											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1802960-09	ortho-Phosphate as P	1/27/2018	0.05	Y	n	u		0.050	0.017	mg/L
Analytical Method EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-1Q18	1802960-05	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-1Q18	1802960-05	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-1Q18	1802960-05	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
Dup-4-1Q18	1802960-05	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-1Q18	1802960-05	Trichloroethene	2/3/2018	0.6	Y	y	v		0.50	0.19	ug/L
Dup-4-1Q18	1802960-05	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-4-1Q18	1802960-05	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
Dup-4-1Q18	1802960-05	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
Dup-4-1Q18	1802960-05	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
Dup-4-1Q18	1802960-05	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
Dup-4-1Q18	1802960-05	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-1Q18	1802960-05	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
Dup-4-1Q18	1802960-05	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
Dup-4-1Q18	1802960-05	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-1Q18	1802960-05	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
Dup-4-1Q18	1802960-05	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-4-1Q18	1802960-05	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-4-1Q18	1802960-05	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-4-1Q18	1802960-05	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-4-1Q18	1802960-05	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-1Q18	1802960-05	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-1Q18	1802960-05	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
Dup-4-1Q18	1802960-05	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-1Q18	1802960-05	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-4-1Q18	1802960-05	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-4-1Q18	1802960-05	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-4-1Q18	1802960-05	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-1Q18	1802960-05	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-4-1Q18	1802960-05	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-4-1Q18	1802960-05	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-4-1Q18	1802960-05	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-4-1Q18	1802960-05	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-4-1Q18	1802960-05	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-1Q18	1802960-05	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-4-1Q18	1802960-05	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
Dup-4-1Q18	1802960-05	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
Dup-4-1Q18	1802960-05	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-4-1Q18	1802960-05	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
Dup-4-1Q18	1802960-05	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
Dup-4-1Q18	1802960-05	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
Dup-4-1Q18	1802960-05	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
Dup-4-1Q18	1802960-05	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
Dup-4-1Q18	1802960-05	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
Dup-4-1Q18	1802960-05	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
Dup-4-1Q18	1802960-05	Toluene-d8 (Surrogate)	2/3/2018	9.8	Y	y	v s				ug/L
Dup-4-1Q18	1802960-05	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-1Q18	1802960-05	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-1Q18	1802960-05	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
Dup-4-1Q18	1802960-05	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-4-1Q18	1802960-05	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
Dup-4-1Q18	1802960-05	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
Dup-4-1Q18	1802960-05	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
Dup-4-1Q18	1802960-05	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-1Q18	1802960-05	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
Dup-4-1Q18	1802960-05	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
Dup-4-1Q18	1802960-05	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
Dup-4-1Q18	1802960-05	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
Dup-4-1Q18	1802960-05	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
Dup-4-1Q18	1802960-05	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-4-1Q18	1802960-05	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-4-1Q18	1802960-05	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
Dup-4-1Q18	1802960-05	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-4-1Q18	1802960-05	Chloroform	2/3/2018	0.25	Y	y	v j		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-1Q18	1802960-05	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-1Q18	1802960-05	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-4-1Q18	1802960-05	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-4-1Q18	1802960-05	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
Dup-4-1Q18	1802960-05	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
Dup-4-1Q18	1802960-05	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-012618	1802960-10	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-012618	1802960-10	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-4-012618	1802960-10	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-012618	1802960-10	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-4-012618	1802960-10	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-012618	1802960-10	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-012618	1802960-10	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-012618	1802960-10	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-012618	1802960-10	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-012618	1802960-10	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-012618	1802960-10	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-012618	1802960-10	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-012618	1802960-10	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-012618	1802960-10	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
EB-4-012618	1802960-10	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L

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EB-4-012618	1802960-10	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
EB-4-012618	1802960-10	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
EB-4-012618	1802960-10	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
EB-4-012618	1802960-10	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
EB-4-012618	1802960-10	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
EB-4-012618	1802960-10	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
EB-4-012618	1802960-10	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-012618	1802960-10	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-012618	1802960-10	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-012618	1802960-10	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-012618	1802960-10	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-4-012618	1802960-10	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-012618	1802960-10	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-012618	1802960-10	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-012618	1802960-10	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-012618	1802960-10	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	Toluene-d8 (Surrogate)	2/3/2018	9.6	Y	y	v s				ug/L
EB-4-012618	1802960-10	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
EB-4-012618	1802960-10	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
EB-4-012618	1802960-10	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-4-012618	1802960-10	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-012618	1802960-10	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
EB-4-012618	1802960-10	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L

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EB-4-012618	1802960-10	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
EB-4-012618	1802960-10	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-4-012618	1802960-10	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-4-012618	1802960-10	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-4-012618	1802960-10	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
EB-4-012618	1802960-10	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
EB-4-012618	1802960-10	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
EB-4-012618	1802960-10	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
EB-4-012618	1802960-10	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-4-012618	1802960-10	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
EB-4-012618	1802960-10	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
EB-4-012618	1802960-10	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
EB-4-012618	1802960-10	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-012618	1802960-10	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
EB-4-012618	1802960-10	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-4-012618	1802960-10	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-012618	1802960-10	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-012618	1802960-10	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-012618	1802960-10	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-012618	1802960-10	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-012618	1802960-10	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-012618	1802960-10	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-012618	1802960-10	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-012618	1802960-10	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-012618	1802960-10	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-012618	1802960-10	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-012618	1802960-10	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-012618	1802960-10	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-4-012618	1802960-10	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-012618	1802960-10	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-012618	1802960-10	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-012618	1802960-10	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-012618	1802960-10	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	Styrene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1802960-04	n-Propylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1802960-04	Naphthalene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1802960-04	Methyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	Methylene chloride	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1802960-04	1,1,1,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1802960-04	Isopropylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	1,1,2-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1802960-04	Hexachlorobutadiene	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1802960-04	p-Isopropyltoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-22-1	1802960-04	1,1,2,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1802960-04	Tetrachloroethene	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1802960-04	Toluene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1802960-04	1,2,3-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1802960-04	1,1,1-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1802960-04	Trichloroethene	2/2/2018	0.54	Y	y	v		0.50	0.19	ug/L
MW-22-1	1802960-04	1,3-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1802960-04	Hexachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1802960-04	trans-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1802960-04	1,3,5-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	1,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	1,2,4-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	Vinyl chloride	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1802960-04	Methyl methacrylate	2/2/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-1	1802960-04	2,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1802960-04	cis-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	trans-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1802960-04	Ethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	Trichlorofluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	1,2,3-Trichloropropane	2/2/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-1	1802960-04	1,1,2-Trichloro-1,2,2-trifluoroethane	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1802960-04	1,2,4-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1802960-04	Acetone	2/2/2018	10	Y	n	u		10	6.6	ug/L
MW-22-1	1802960-04	cis-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1802960-04	Ethyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.32	ug/L

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MW-22-1	1802960-04	1,1-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1802960-04	Acrylonitrile	2/2/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-1	1802960-04	Allyl chloride	2/2/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-1	1802960-04	t-Amyl Methyl ether	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1802960-04	t-Butyl alcohol	2/2/2018	10	Y	n	u		10	9.4	ug/L
MW-22-1	1802960-04	Carbon disulfide	2/2/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-1	1802960-04	trans-1,4-Dichloro-2-butene	2/2/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-1	1802960-04	Diethyl ether	2/2/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-1	1802960-04	Ethyl methacrylate	2/2/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-1	1802960-04	Methyl isobutyl ketone	2/2/2018	10	Y	n	u		10	2.4	ug/L
MW-22-1	1802960-04	1-Chlorobutane	2/2/2018	0	Y	y	v				ug/L
MW-22-1	1802960-04	Propionitrile	2/2/2018	20	Y	n	u		20	6.2	ug/L
MW-22-1	1802960-04	Methacrylonitrile	2/2/2018	10	Y	n	u		10	2.3	ug/L
MW-22-1	1802960-04	Methyl ethyl ketone	2/2/2018	10	Y	n	u		10	3.3	ug/L
MW-22-1	1802960-04	Methyl iodide	2/2/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-1	1802960-04	Dibromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1802960-04	Chloromethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1802960-04	2-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	2-Nitropropane	2/2/2018	0	Y	y	v				ug/L
MW-22-1	1802960-04	Nitrobenzene	2/2/2018	0	Y	y	v				ug/L
MW-22-1	1802960-04	Chloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1802960-04	1,1-Dichloropropanone	2/2/2018	0	Y	y	v				ug/L
MW-22-1	1802960-04	Chlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1802960-04	Chloroacetonitrile	2/2/2018	0	Y	y	v				ug/L
MW-22-1	1802960-04	4-Bromofluorobenzene (Surrogate)	2/2/2018	9.7	Y	y	v s				ug/L

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MW-22-1	1802960-04	Toluene-d8 (Surrogate)	2/2/2018	9.8	Y	y	v s				ug/L
MW-22-1	1802960-04	1,2-Dichloroethane-d4 (Surrogate)	2/2/2018	11	Y	y	v s				ug/L
MW-22-1	1802960-04	o-Xylene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1802960-04	p- & m-Xylenes	2/2/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-1	1802960-04	Tetrahydrofuran	2/2/2018	20	Y	n	u		20	5.2	ug/L
MW-22-1	1802960-04	Pentachloroethane	2/2/2018	2	Y	n	u		2.0	0.63	ug/L
MW-22-1	1802960-04	4-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-1	1802960-04	Methyl acrylate	2/2/2018	0	Y	y	v				ug/L
MW-22-1	1802960-04	Benzene	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1802960-04	1,2-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1802960-04	1,1-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	Dichlorodifluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	1,4-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	1,3-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1802960-04	1,2-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1802960-04	Dibromomethane	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1802960-04	1,2-Dibromoethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1802960-04	Chloroform	2/2/2018	0.26	Y	y	v j		0.50	0.14	ug/L
MW-22-1	1802960-04	1,2-Dibromo-3-chloropropane	2/2/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-1	1802960-04	1,1-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1802960-04	2-Hexanone	2/2/2018	10	Y	n	u		10	5.0	ug/L
MW-22-1	1802960-04	Bromobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	Bromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1802960-04	Bromodichloromethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1802960-04	Bromoform	2/2/2018	0.5	Y	n	u		0.50	0.46	ug/L

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MW-22-1	1802960-04	Bromomethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1802960-04	n-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1802960-04	sec-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1802960-04	tert-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1802960-04	Carbon tetrachloride	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	1,1-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1802960-03	Propionitrile	2/2/2018	20	Y	n	u		20	6.2	ug/L
MW-22-2	1802960-03	p-Isopropyltoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	trans-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1802960-03	1,1,1,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1802960-03	Styrene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1802960-03	n-Propylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1802960-03	Naphthalene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1802960-03	Tetrachloroethene	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1802960-03	Methylene chloride	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1802960-03	Toluene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	Isopropylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	Hexachlorobutadiene	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1802960-03	Ethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	cis-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	Dibromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1802960-03	2,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1802960-03	Methyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	1,2,3-Trichloropropane	2/2/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-2	1802960-03	Methyl methacrylate	2/2/2018	5	Y	n	u		5.0	1.2	ug/L

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MW-22-2	1802960-03	Methyl isobutyl ketone	2/2/2018	10	Y	n	u		10	2.4	ug/L
MW-22-2	1802960-03	Methyl iodide	2/2/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-2	1802960-03	Methyl ethyl ketone	2/2/2018	10	Y	n	u		10	3.3	ug/L
MW-22-2	1802960-03	1,3,5-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	1,1,2,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	1,1,2-Trichloro-1,2,2-trifluoroethane	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1802960-03	Pentachloroethane	2/2/2018	2	Y	n	u		2.0	0.63	ug/L
MW-22-2	1802960-03	Trichlorofluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	Trichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1802960-03	1,1,2-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1802960-03	1,1,1-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1802960-03	1,2,4-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	1,2,3-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1802960-03	1,2,4-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	1,3-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1802960-03	Tetrahydrofuran	2/2/2018	20	Y	n	u		20	5.2	ug/L
MW-22-2	1802960-03	trans-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	cis-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1802960-03	1,1-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1802960-03	1,2-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	1,1-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	Vinyl chloride	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1802960-03	1,4-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	1-Chlorobutane	2/2/2018	0	Y	y	v				ug/L
MW-22-2	1802960-03	1,2-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L

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MW-22-2	1802960-03	Dibromomethane	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1802960-03	1,2-Dibromoethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1802960-03	1,2-Dibromo-3-chloropropane	2/2/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-2	1802960-03	2-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	4-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-2	1802960-03	Dichlorodifluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	trans-1,4-Dichloro-2-butene	2/2/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-2	1802960-03	Chloroacetonitrile	2/2/2018	0	Y	y	v				ug/L
MW-22-2	1802960-03	4-Bromofluorobenzene (Surrogate)	2/2/2018	9.7	Y	y	vs				ug/L
MW-22-2	1802960-03	Methacrylonitrile	2/2/2018	10	Y	n	u		10	2.3	ug/L
MW-22-2	1802960-03	2-Hexanone	2/2/2018	10	Y	n	u		10	5.0	ug/L
MW-22-2	1802960-03	Hexachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1802960-03	Ethyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-2	1802960-03	1,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	Diethyl ether	2/2/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-2	1802960-03	1,3-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1802960-03	Carbon disulfide	2/2/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-2	1802960-03	t-Butyl alcohol	2/2/2018	10	Y	n	u		10	9.4	ug/L
MW-22-2	1802960-03	t-Amyl Methyl ether	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1802960-03	Allyl chloride	2/2/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-2	1802960-03	Acrylonitrile	2/2/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-2	1802960-03	Acetone	2/2/2018	10	Y	n	u		10	6.6	ug/L
MW-22-2	1802960-03	Ethyl methacrylate	2/2/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-2	1802960-03	Bromobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	Toluene-d8 (Surrogate)	2/2/2018	9.6	Y	y	vs				ug/L

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MW-22-2	1802960-03	1,1-Dichloropropanone	2/2/2018	0	Y	y	v				ug/L
MW-22-2	1802960-03	Methyl acrylate	2/2/2018	0	Y	y	v				ug/L
MW-22-2	1802960-03	Nitrobenzene	2/2/2018	0	Y	y	v				ug/L
MW-22-2	1802960-03	2-Nitropropane	2/2/2018	0	Y	y	v				ug/L
MW-22-2	1802960-03	Chloromethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1802960-03	o-Xylene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1802960-03	1,2-Dichloroethane-d4 (Surrogate)	2/2/2018	9.8	Y	y	v s				ug/L
MW-22-2	1802960-03	Benzene	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1802960-03	Bromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1802960-03	Bromodichloromethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1802960-03	Bromoform	2/2/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-2	1802960-03	Bromomethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1802960-03	n-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1802960-03	sec-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1802960-03	tert-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1802960-03	Carbon tetrachloride	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	Chlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	Chloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1802960-03	Chloroform	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1802960-03	p- & m-Xylenes	2/2/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-3	1802960-02	1,3-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1802960-02	Diethyl ether	2/2/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-3	1802960-02	Ethyl methacrylate	2/2/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-3	1802960-02	2-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	4-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.093	ug/L

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MW-22-3	1802960-02	Dibromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1802960-02	1,2-Dibromo-3-chloropropane	2/2/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-3	1802960-02	1,2-Dibromoethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1802960-02	Benzene	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1802960-02	1,2-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1802960-02	1,4-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1802960-02	Dichlorodifluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1802960-02	Ethyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-3	1802960-02	Dibromomethane	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1802960-02	2,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1802960-02	Carbon tetrachloride	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1802960-02	Pentachloroethane	2/2/2018	2	Y	n	u		2.0	0.63	ug/L
MW-22-3	1802960-02	Methyl methacrylate	2/2/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-3	1802960-02	Methyl isobutyl ketone	2/2/2018	10	Y	n	u		10	2.4	ug/L
MW-22-3	1802960-02	Methyl iodide	2/2/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-3	1802960-02	Methyl ethyl ketone	2/2/2018	10	Y	n	u		10	3.3	ug/L
MW-22-3	1802960-02	Methacrylonitrile	2/2/2018	10	Y	n	u		10	2.3	ug/L
MW-22-3	1802960-02	Tetrahydrofuran	2/2/2018	20	Y	n	u		20	5.2	ug/L
MW-22-3	1802960-02	Hexachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1802960-02	p- & m-Xylenes	2/2/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-3	1802960-02	Bromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1802960-02	Bromodichloromethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1802960-02	Bromoform	2/2/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-3	1802960-02	Bromomethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1802960-02	n-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1802960-02	sec-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1802960-02	Bromobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1802960-02	2-Hexanone	2/2/2018	10	Y	n	u		10	5.0	ug/L
MW-22-3	1802960-02	Methyl acrylate	2/2/2018	0	Y	y	v				ug/L
MW-22-3	1802960-02	1,3-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1802960-02	1,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1802960-02	trans-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1802960-02	cis-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1802960-02	1,1-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1802960-02	1,2-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1802960-02	1,1-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1802960-02	Propionitrile	2/2/2018	20	Y	n	u		20	6.2	ug/L
MW-22-3	1802960-02	Nitrobenzene	2/2/2018	0	Y	y	v				ug/L
MW-22-3	1802960-02	Chlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	1,1-Dichloropropanone	2/2/2018	0	Y	y	v				ug/L
MW-22-3	1802960-02	1-Chlorobutane	2/2/2018	0	Y	y	v				ug/L
MW-22-3	1802960-02	Chloroacetonitrile	2/2/2018	0	Y	y	v				ug/L
MW-22-3	1802960-02	4-Bromofluorobenzene (Surrogate)	2/2/2018	9.7	Y	y	vs				ug/L
MW-22-3	1802960-02	Toluene-d8 (Surrogate)	2/2/2018	10	Y	y	vs				ug/L
MW-22-3	1802960-02	1,2-Dichloroethane-d4 (Surrogate)	2/2/2018	11	Y	y	vs				ug/L
MW-22-3	1802960-02	o-Xylene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1802960-02	2-Nitropropane	2/2/2018	0	Y	y	v				ug/L
MW-22-3	1802960-02	1,3,5-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	tert-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1802960-02	1,2,4-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1802960-02	1,1,1-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1802960-02	1,1,2-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1802960-02	Trichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1802960-02	Trichlorofluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	1,2,3-Trichloropropane	2/2/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-3	1802960-02	Toluene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1802960-02	1,2,4-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1802960-02	Tetrachloroethene	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1802960-02	Vinyl chloride	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1802960-02	Acetone	2/2/2018	10	Y	n	u		10	6.6	ug/L
MW-22-3	1802960-02	Acrylonitrile	2/2/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-3	1802960-02	Allyl chloride	2/2/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-3	1802960-02	t-Amyl Methyl ether	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1802960-02	t-Butyl alcohol	2/2/2018	10	Y	n	u		10	9.4	ug/L
MW-22-3	1802960-02	Carbon disulfide	2/2/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-3	1802960-02	1,1,2-Trichloro-1,2,2-trifluoroethane	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1802960-02	Isopropylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	Chloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1802960-02	Chloroform	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	Chloromethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1802960-02	1,1-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1802960-02	cis-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	trans-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1802960-02	Ethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1802960-02	1,2,3-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1802960-02	Hexachlorobutadiene	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1802960-02	trans-1,4-Dichloro-2-butene	2/2/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-3	1802960-02	p-Isopropyltoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	Methylene chloride	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1802960-02	Methyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1802960-02	Naphthalene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1802960-02	n-Propylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1802960-02	Styrene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1802960-02	1,1,1,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1802960-02	1,1,2,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-1	1802960-09	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-1	1802960-09	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-1	1802960-09	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-24-1	1802960-09	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1802960-09	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-1	1802960-09	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-1	1802960-09	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-24-1	1802960-09	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1802960-09	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1802960-09	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1802960-09	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1802960-09	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1802960-09	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1802960-09	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1802960-09	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1802960-09	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1802960-09	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1802960-09	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-24-1	1802960-09	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-24-1	1802960-09	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-24-1	1802960-09	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-24-1	1802960-09	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-24-1	1802960-09	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-24-1	1802960-09	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-24-1	1802960-09	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	vs				ug/L
MW-24-1	1802960-09	Toluene-d8 (Surrogate)	2/3/2018	9.8	Y	y	vs				ug/L
MW-24-1	1802960-09	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-24-1	1802960-09	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-1	1802960-09	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-1	1802960-09	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-1	1802960-09	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-24-1	1802960-09	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
MW-24-1	1802960-09	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-1	1802960-09	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1802960-09	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-1	1802960-09	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-24-1	1802960-09	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-24-1	1802960-09	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-24-1	1802960-09	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1802960-09	Chloroform	2/3/2018	2.3	Y	y	v		0.50	0.14	ug/L
MW-24-1	1802960-09	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1802960-09	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1802960-09	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1802960-09	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1802960-09	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-1	1802960-09	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1802960-09	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-1	1802960-09	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1802960-09	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1802960-09	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1802960-09	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-1	1802960-09	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1802960-09	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1802960-09	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1802960-09	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1802960-09	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1802960-09	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1802960-09	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1802960-09	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1802960-09	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1802960-09	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1802960-09	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1802960-09	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1802960-09	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1802960-09	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1802960-09	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1802960-09	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1802960-09	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1802960-09	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-2	1802960-08	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1802960-08	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1802960-08	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1802960-08	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-2	1802960-08	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-2	1802960-08	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-2	1802960-08	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-24-2	1802960-08	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1802960-08	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-2	1802960-08	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-2	1802960-08	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-2	1802960-08	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1802960-08	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-2	1802960-08	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1802960-08	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1802960-08	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1802960-08	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1802960-08	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1802960-08	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1802960-08	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-24-2	1802960-08	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-2	1802960-08	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L

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MW-24-2	1802960-08	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-24-2	1802960-08	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-24-2	1802960-08	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-24-2	1802960-08	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-24-2	1802960-08	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-24-2	1802960-08	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-24-2	1802960-08	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-24-2	1802960-08	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-2	1802960-08	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1802960-08	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1802960-08	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-24-2	1802960-08	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-24-2	1802960-08	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
MW-24-2	1802960-08	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-2	1802960-08	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-24-2	1802960-08	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-2	1802960-08	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-24-2	1802960-08	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-24-2	1802960-08	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-24-2	1802960-08	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-24-2	1802960-08	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1802960-08	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1802960-08	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1802960-08	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

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MW-24-2	1802960-08	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-2	1802960-08	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-2	1802960-08	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-2	1802960-08	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1802960-08	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1802960-08	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1802960-08	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1802960-08	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1802960-08	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1802960-08	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-2	1802960-08	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1802960-08	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1802960-08	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1802960-08	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-2	1802960-08	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-2	1802960-08	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1802960-08	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1802960-08	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-2	1802960-08	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1802960-08	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1802960-08	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1802960-08	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1802960-08	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1802960-08	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1802960-08	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1802960-08	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1802960-08	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1802960-08	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1802960-08	1,2-Dichloroethane	2/3/2018	0.98	Y	y	v		0.50	0.17	ug/L
MW-24-2	1802960-08	1,1-Dichloroethane	2/3/2018	0.17	Y	y	v j		0.50	0.15	ug/L
MW-24-2	1802960-08	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1802960-07	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1802960-07	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1802960-07	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1802960-07	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1802960-07	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1802960-07	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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MW-24-3	1802960-07	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1802960-07	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1802960-07	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1802960-07	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1802960-07	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1802960-07	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1802960-07	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1802960-07	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1802960-07	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1802960-07	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1802960-07	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1802960-07	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-3	1802960-07	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-24-3	1802960-07	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-24-3	1802960-07	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-24-3	1802960-07	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1802960-07	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-3	1802960-07	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-24-3	1802960-07	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-24-3	1802960-07	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L

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MW-24-3	1802960-07	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1802960-07	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-24-3	1802960-07	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-24-3	1802960-07	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-24-3	1802960-07	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-24-3	1802960-07	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1802960-07	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1802960-07	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-3	1802960-07	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1802960-07	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1802960-07	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1802960-07	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-3	1802960-07	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-3	1802960-07	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1802960-07	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-24-3	1802960-07	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-24-3	1802960-07	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-24-3	1802960-07	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-24-3	1802960-07	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-24-3	1802960-07	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-24-3	1802960-07	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1802960-07	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L

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MW-24-3	1802960-07	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1802960-07	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-3	1802960-07	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-3	1802960-07	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-24-3	1802960-07	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1802960-07	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-3	1802960-07	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-3	1802960-07	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-24-3	1802960-07	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-3	1802960-07	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1802960-07	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1802960-07	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1802960-07	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1802960-07	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1802960-07	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-3	1802960-07	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1802960-07	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-3	1802960-07	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1802960-07	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1802960-07	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-3	1802960-07	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1802960-07	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-3	1802960-07	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1802960-07	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1802960-07	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1802960-07	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1802960-07	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	p- & m-Xylenes	2/2/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-4-012618	1802960-01	Ethyl methacrylate	2/2/2018	4	Y	n	u		4.0	1.3	ug/L
TB-4-012618	1802960-01	o-Xylene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-012618	1802960-01	Methyl ethyl ketone	2/2/2018	10	Y	n	u		10	3.3	ug/L
TB-4-012618	1802960-01	Propionitrile	2/2/2018	20	Y	n	u		20	6.2	ug/L
TB-4-012618	1802960-01	Pentachloroethane	2/2/2018	2	Y	n	u		2.0	0.63	ug/L
TB-4-012618	1802960-01	Methyl methacrylate	2/2/2018	5	Y	n	u		5.0	1.2	ug/L
TB-4-012618	1802960-01	Methyl isobutyl ketone	2/2/2018	10	Y	n	u		10	2.4	ug/L
TB-4-012618	1802960-01	Acetone	2/2/2018	10	Y	n	u		10	6.6	ug/L
TB-4-012618	1802960-01	Methyl iodide	2/2/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-4-012618	1802960-01	Tetrahydrofuran	2/2/2018	20	Y	n	u		20	5.2	ug/L
TB-4-012618	1802960-01	Methacrylonitrile	2/2/2018	10	Y	n	u		10	2.3	ug/L
TB-4-012618	1802960-01	2-Hexanone	2/2/2018	10	Y	n	u		10	5.0	ug/L
TB-4-012618	1802960-01	Carbon disulfide	2/2/2018	1	Y	n	u		1.0	0.48	ug/L
TB-4-012618	1802960-01	Ethyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-4-012618	1802960-01	Diethyl ether	2/2/2018	2	Y	n	u		2.0	0.33	ug/L
TB-4-012618	1802960-01	trans-1,4-Dichloro-2-butene	2/2/2018	5	Y	n	u		5.0	1.8	ug/L
TB-4-012618	1802960-01	Acrylonitrile	2/2/2018	5	Y	n	u		5.0	1.5	ug/L
TB-4-012618	1802960-01	1,2-Dichloroethane-d4 (Surrogate)	2/2/2018	11	Y	y	v s				ug/L
TB-4-012618	1802960-01	Allyl chloride	2/2/2018	5	Y	n	u		5.0	0.47	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-4-012618	1802960-01	Bromobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	t-Butyl alcohol	2/2/2018	10	Y	n	u		10	9.4	ug/L
TB-4-012618	1802960-01	t-Amyl Methyl ether	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-012618	1802960-01	Hexachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-012618	1802960-01	Dibromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-012618	1802960-01	sec-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-012618	1802960-01	tert-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-012618	1802960-01	Carbon tetrachloride	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	n-Butylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	Bromomethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-012618	1802960-01	Isopropylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	Vinyl chloride	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-012618	1802960-01	Chloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	Chloroform	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	Chloromethane	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-012618	1802960-01	2-Nitropropane	2/2/2018	0	Y	y	v				ug/L
TB-4-012618	1802960-01	4-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-4-012618	1802960-01	Toluene-d8 (Surrogate)	2/2/2018	9.9	Y	y	v s				ug/L
TB-4-012618	1802960-01	1,2-Dibromo-3-chloropropane	2/2/2018	1	Y	n	u		1.0	0.89	ug/L
TB-4-012618	1802960-01	Bromochloromethane	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-012618	1802960-01	Benzene	2/2/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-012618	1802960-01	Chlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	Nitrobenzene	2/2/2018	0	Y	y	v				ug/L
TB-4-012618	1802960-01	Methyl acrylate	2/2/2018	0	Y	y	v				ug/L
TB-4-012618	1802960-01	1,1-Dichloropropanone	2/2/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-4-012618	1802960-01	1-Chlorobutane	2/2/2018	0	Y	y	v				ug/L
TB-4-012618	1802960-01	Chloroacetonitrile	2/2/2018	0	Y	y	v				ug/L
TB-4-012618	1802960-01	4-Bromofluorobenzene (Surrogate)	2/2/2018	9.6	Y	y	v s				ug/L
TB-4-012618	1802960-01	2-Chlorotoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	1,1-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	trans-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-012618	1802960-01	1,3,5-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	1,1-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-012618	1802960-01	Methylene chloride	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-012618	1802960-01	1,3-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-012618	1802960-01	1,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	trans-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	cis-1,2-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-012618	1802960-01	Ethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	1,2-Dichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	cis-1,3-Dichloropropene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	Dichlorodifluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	1,4-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	1,3-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-012618	1802960-01	1,2-Dichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-012618	1802960-01	Dibromomethane	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-012618	1802960-01	1,2-Dibromoethane	2/2/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-012618	1802960-01	Bromoform	2/2/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-4-012618	1802960-01	Bromodichloromethane	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-012618	1802960-01	1,1-Dichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-4-012618	1802960-01	1,2,4-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-012618	1802960-01	1,2,4-Trimethylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	1,1,2-Trichloro-1,2,2-trifluoroethane	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-012618	1802960-01	1,2,3-Trichloropropane	2/2/2018	1	Y	n	u		1.0	0.78	ug/L
TB-4-012618	1802960-01	Trichlorofluoromethane	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	Trichloroethene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-012618	1802960-01	2,2-Dichloropropane	2/2/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-012618	1802960-01	1,1,1-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-012618	1802960-01	Hexachlorobutadiene	2/2/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-012618	1802960-01	1,2,3-Trichlorobenzene	2/2/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-012618	1802960-01	Methyl t-butyl ether	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	p-Isopropyltoluene	2/2/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-012618	1802960-01	Tetrachloroethene	2/2/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-012618	1802960-01	1,1,2,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	1,1,1,2-Tetrachloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-012618	1802960-01	Styrene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-012618	1802960-01	n-Propylbenzene	2/2/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-012618	1802960-01	Naphthalene	2/2/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-012618	1802960-01	Toluene	2/2/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-012618	1802960-01	1,1,2-Trichloroethane	2/2/2018	0.5	Y	n	u		0.50	0.21	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-1Q18	1802960-05	Hexavalent Chromium	1/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-4-012618	1802960-10	Hexavalent Chromium	1/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

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Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-1	1802960-04	Hexavalent Chromium	1/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-22-2	1802960-03	Hexavalent Chromium	1/26/2018	0.0024	Y	y	v		0.0020	0.0007	mg/L
MW-22-3	1802960-02	Hexavalent Chromium	1/26/2018	0.0028	Y	y	v		0.0020	0.0007	mg/L
MW-24-1	1802960-09	Hexavalent Chromium	1/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-2	1802960-08	Hexavalent Chromium	1/26/2018	0.0019	Y	y	v j		0.0020	0.0007	mg/L
MW-24-3	1802960-07	Hexavalent Chromium	1/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-4	1802960-06	Hexavalent Chromium	1/27/2018	0.01	Y	n	u		0.010	0.0035	mg/L

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Analytical Method EPA-200.8

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-012918	1803079-11	Total Recoverable Chromium	2/2/2018	2.9	Y	y	v j	U	3.0	0.50	ug/L
MW-21-2	1803079-05	Total Recoverable Chromium	2/2/2018	6.1	Y	y	v	U	3.0	0.50	ug/L
MW-21-3	1803079-04	Total Recoverable Chromium	2/2/2018	6.8	Y	y	v	U	3.0	0.50	ug/L
MW-21-4	1803079-03	Total Recoverable Chromium	2/2/2018	7.6	Y	y	v		3.0	0.50	ug/L
MW-21-5	1803079-02	Total Recoverable Chromium	2/2/2018	2.3	Y	y	v j	U	3.0	0.50	ug/L
MW-25-1	1803079-10	Total Recoverable Chromium	2/2/2018	3	Y	y	v	U	3.0	0.50	ug/L
MW-25-2	1803079-09	Total Recoverable Chromium	2/2/2018	8.8	Y	y	v		3.0	0.50	ug/L
MW-25-3	1803079-08	Total Recoverable Chromium	2/2/2018	5.5	Y	y	v	U	3.0	0.50	ug/L
MW-25-4	1803079-07	Total Recoverable Chromium	2/2/2018	1.2	Y	y	v j	U	3.0	0.50	ug/L
MW-25-5	1803079-06	Total Recoverable Chromium	2/2/2018	5.6	Y	y	v	U	3.0	0.50	ug/L
SB-2-012918	1803079-12	Total Recoverable Chromium	2/2/2018	1.1	Y	y	v j	U	3.0	0.50	ug/L

Analytical Method EPA-314.0

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-012918	1803079-11	Perchlorate	2/16/2018	4	Y	n	u		4.0	0.58	ug/L
MW-21-2	1803079-05	Perchlorate	2/16/2018	1.6	Y	y	v j		4.0	0.58	ug/L
MW-21-3	1803079-04	Perchlorate	2/15/2018	2.4	Y	y	v j		4.0	0.58	ug/L
MW-21-4	1803079-03	Perchlorate	2/15/2018	4.2	Y	y	v		4.0	0.58	ug/L
MW-21-5	1803079-02	Perchlorate	2/15/2018	2.3	Y	y	v j		4.0	0.58	ug/L
MW-25-1	1803079-10	Perchlorate	2/16/2018	6	Y	y	v		4.0	0.58	ug/L
MW-25-2	1803079-09	Perchlorate	2/16/2018	12	Y	y	v		4.0	0.58	ug/L
MW-25-3	1803079-08	Perchlorate	2/15/2018	9.1	Y	y	v		4.0	0.58	ug/L
MW-25-4	1803079-07	Perchlorate	2/15/2018	6.9	Y	y	v		4.0	0.58	ug/L
MW-25-5	1803079-06	Perchlorate	2/15/2018	4	Y	n	u		4.0	0.58	ug/L

SDG: 18-03079

Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-012918	1803079-12	Perchlorate	2/16/2018	4	Y	n	u		4.0	0.58	ug/L

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-012918	1803079-11	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-5-012918	1803079-11	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-012918	1803079-11	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-012918	1803079-11	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
EB-5-012918	1803079-11	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
EB-5-012918	1803079-11	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
EB-5-012918	1803079-11	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
EB-5-012918	1803079-11	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
EB-5-012918	1803079-11	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
EB-5-012918	1803079-11	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-012918	1803079-11	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-5-012918	1803079-11	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-5-012918	1803079-11	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-5-012918	1803079-11	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-012918	1803079-11	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-012918	1803079-11	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-012918	1803079-11	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-5-012918	1803079-11	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-5-012918	1803079-11	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-012918	1803079-11	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-5-012918	1803079-11	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
EB-5-012918	1803079-11	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-5-012918	1803079-11	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
EB-5-012918	1803079-11	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-5-012918	1803079-11	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-012918	1803079-11	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-5-012918	1803079-11	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-5-012918	1803079-11	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-5-012918	1803079-11	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-012918	1803079-11	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-012918	1803079-11	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-012918	1803079-11	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-012918	1803079-11	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-5-012918	1803079-11	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-012918	1803079-11	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-5-012918	1803079-11	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-012918	1803079-11	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-5-012918	1803079-11	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-012918	1803079-11	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-5-012918	1803079-11	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-012918	1803079-11	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-012918	1803079-11	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-012918	1803079-11	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-5-012918	1803079-11	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-012918	1803079-11	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-5-012918	1803079-11	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	v s				ug/L
EB-5-012918	1803079-11	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-012918	1803079-11	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-012918	1803079-11	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
EB-5-012918	1803079-11	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-5-012918	1803079-11	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L

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EB-5-012918	1803079-11	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
EB-5-012918	1803079-11	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-5-012918	1803079-11	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
EB-5-012918	1803079-11	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
EB-5-012918	1803079-11	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-5-012918	1803079-11	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-012918	1803079-11	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
EB-5-012918	1803079-11	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-5-012918	1803079-11	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-5-012918	1803079-11	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
EB-5-012918	1803079-11	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
EB-5-012918	1803079-11	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
EB-5-012918	1803079-11	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-012918	1803079-11	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-5-012918	1803079-11	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
EB-5-012918	1803079-11	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
EB-5-012918	1803079-11	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-5-012918	1803079-11	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-012918	1803079-11	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-21-2	1803079-05	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1803079-05	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-2	1803079-05	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1803079-05	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1803079-05	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1803079-05	Tetrachloroethene	2/3/2018	0.45	Y	y	v j		0.50	0.23	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-2	1803079-05	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1803079-05	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1803079-05	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1803079-05	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1803079-05	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-2	1803079-05	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1803079-05	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1803079-05	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1803079-05	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-21-2	1803079-05	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-2	1803079-05	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-2	1803079-05	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1803079-05	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1803079-05	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-21-2	1803079-05	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-21-2	1803079-05	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-21-2	1803079-05	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-21-2	1803079-05	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-21-2	1803079-05	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-21-2	1803079-05	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.8	Y	y	v s				ug/L
MW-21-2	1803079-05	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-2	1803079-05	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1803079-05	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-2	1803079-05	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1803079-05	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1803079-05	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1803079-05	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1803079-05	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1803079-05	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1803079-05	Chloroform	2/3/2018	0.2	Y	y	vj		0.50	0.14	ug/L
MW-21-2	1803079-05	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1803079-05	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1803079-05	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-2	1803079-05	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1803079-05	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-2	1803079-05	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1803079-05	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-2	1803079-05	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1803079-05	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1803079-05	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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MW-21-2	1803079-05	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1803079-05	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1803079-05	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1803079-05	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1803079-05	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1803079-05	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1803079-05	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1803079-05	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-2	1803079-05	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1803079-05	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-2	1803079-05	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-2	1803079-05	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-2	1803079-05	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-2	1803079-05	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1803079-05	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-21-2	1803079-05	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-21-2	1803079-05	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-21-2	1803079-05	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-21-2	1803079-05	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1803079-05	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-2	1803079-05	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-2	1803079-05	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-21-2	1803079-05	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-2	1803079-05	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1803079-05	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-21-2	1803079-05	Toluene-d8 (Surrogate)	2/3/2018	9.8	Y	y	v s				ug/L
MW-21-2	1803079-05	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1803079-05	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-21-2	1803079-05	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-2	1803079-05	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1803079-04	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-21-3	1803079-04	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	v s				ug/L
MW-21-3	1803079-04	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1803079-04	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-3	1803079-04	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-21-3	1803079-04	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-21-3	1803079-04	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
MW-21-3	1803079-04	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-3	1803079-04	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-21-3	1803079-04	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-3	1803079-04	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1803079-04	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-21-3	1803079-04	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1803079-04	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-3	1803079-04	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-3	1803079-04	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1803079-04	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-3	1803079-04	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-3	1803079-04	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-21-3	1803079-04	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1803079-04	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-3	1803079-04	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-3	1803079-04	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1803079-04	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1803079-04	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1803079-04	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-3	1803079-04	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1803079-04	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1803079-04	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1803079-04	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1803079-04	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-21-3	1803079-04	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-21-3	1803079-04	Chloroform	2/3/2018	0.44	Y	y	v j		0.50	0.14	ug/L
MW-21-3	1803079-04	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1803079-04	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-21-3	1803079-04	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-21-3	1803079-04	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-21-3	1803079-04	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1803079-04	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-21-3	1803079-04	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-21-3	1803079-04	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-21-3	1803079-04	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1803079-04	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1803079-04	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1803079-04	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1803079-04	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1803079-04	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-3	1803079-04	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1803079-04	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1803079-04	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1803079-04	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1803079-04	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1803079-04	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1803079-04	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1803079-04	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1803079-04	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1803079-04	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1803079-04	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-21-3	1803079-04	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1803079-04	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1803079-04	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1803079-04	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-3	1803079-04	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	Trichloroethene	2/3/2018	0.69	Y	y	v		0.50	0.19	ug/L
MW-21-3	1803079-04	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1803079-04	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1803079-04	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-3	1803079-04	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1803079-04	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1803079-04	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1803079-04	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1803079-04	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1803079-04	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-3	1803079-04	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1803079-04	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	Tetrachloroethene	2/3/2018	0.81	Y	y	v		0.50	0.23	ug/L
MW-21-3	1803079-04	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1803079-04	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1803079-04	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-4	1803079-03	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1803079-03	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1803079-03	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1803079-03	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1803079-03	Chloroform	2/3/2018	4.6	Y	y	v		0.50	0.14	ug/L
MW-21-4	1803079-03	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1803079-03	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1803079-03	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-4	1803079-03	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1803079-03	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1803079-03	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-4	1803079-03	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1803079-03	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-4	1803079-03	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1803079-03	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-4	1803079-03	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1803079-03	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-4	1803079-03	Tetrachloroethene	2/3/2018	0.59	Y	y	v		0.50	0.23	ug/L
MW-21-4	1803079-03	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1803079-03	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1803079-03	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1803079-03	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1803079-03	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1803079-03	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1803079-03	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1803079-03	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1803079-03	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1803079-03	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1803079-03	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-21-4	1803079-03	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1803079-03	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-21-4	1803079-03	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	vs				ug/L
MW-21-4	1803079-03	Toluene-d8 (Surrogate)	2/3/2018	9.8	Y	y	vs				ug/L
MW-21-4	1803079-03	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-21-4	1803079-03	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1803079-03	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-4	1803079-03	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-21-4	1803079-03	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
MW-21-4	1803079-03	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-4	1803079-03	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-21-4	1803079-03	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-4	1803079-03	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-21-4	1803079-03	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-21-4	1803079-03	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-4	1803079-03	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1803079-03	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-21-4	1803079-03	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-4	1803079-03	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-4	1803079-03	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-4	1803079-03	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-4	1803079-03	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1803079-03	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1803079-03	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-4	1803079-03	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-21-4	1803079-03	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1803079-03	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1803079-03	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-21-4	1803079-03	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-4	1803079-03	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-4	1803079-03	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1803079-03	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1803079-03	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-21-4	1803079-03	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1803079-03	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-21-4	1803079-03	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-21-4	1803079-03	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1803079-03	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1803079-03	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-21-4	1803079-03	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-21-4	1803079-03	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-21-5	1803079-02	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1803079-02	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1803079-02	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1803079-02	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1803079-02	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1803079-02	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1803079-02	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1803079-02	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-21-5	1803079-02	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-5	1803079-02	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1803079-02	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1803079-02	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1803079-02	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-21-5	1803079-02	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-5	1803079-02	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-5	1803079-02	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1803079-02	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-21-5	1803079-02	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-5	1803079-02	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-5	1803079-02	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1803079-02	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1803079-02	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1803079-02	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1803079-02	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1803079-02	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1803079-02	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1803079-02	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1803079-02	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1803079-02	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1803079-02	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L

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MW-21-5	1803079-02	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1803079-02	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1803079-02	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	Tetrachloroethene	2/3/2018	0.61	Y	y	v		0.50	0.23	ug/L
MW-21-5	1803079-02	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1803079-02	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-5	1803079-02	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-5	1803079-02	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1803079-02	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1803079-02	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1803079-02	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1803079-02	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-21-5	1803079-02	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-21-5	1803079-02	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-21-5	1803079-02	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-21-5	1803079-02	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1803079-02	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
MW-21-5	1803079-02	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-21-5	1803079-02	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-21-5	1803079-02	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-5	1803079-02	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1803079-02	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L

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MW-21-5	1803079-02	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-21-5	1803079-02	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-21-5	1803079-02	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-21-5	1803079-02	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-21-5	1803079-02	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-5	1803079-02	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-21-5	1803079-02	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-5	1803079-02	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-5	1803079-02	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-21-5	1803079-02	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1803079-02	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-5	1803079-02	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1803079-02	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-5	1803079-02	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1803079-02	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1803079-02	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-21-5	1803079-02	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1803079-02	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-5	1803079-02	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1803079-02	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1803079-02	Chloroform	2/3/2018	5.3	Y	y	v		0.50	0.14	ug/L
MW-21-5	1803079-02	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-21-5	1803079-02	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1803079-02	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1803079-02	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-5	1803079-02	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1803079-10	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-1	1803079-10	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-1	1803079-10	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-1	1803079-10	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-25-1	1803079-10	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1803079-10	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-1	1803079-10	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-1	1803079-10	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-25-1	1803079-10	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1803079-10	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1803079-10	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1803079-10	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-1	1803079-10	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	Trichloroethene	2/3/2018	0.88	Y	y	v		0.50	0.19	ug/L
MW-25-1	1803079-10	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1803079-10	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1803079-10	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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MW-25-1	1803079-10	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-1	1803079-10	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1803079-10	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-25-1	1803079-10	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-25-1	1803079-10	4-Bromofluorobenzene (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-25-1	1803079-10	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	vs				ug/L
MW-25-1	1803079-10	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-25-1	1803079-10	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-1	1803079-10	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-1	1803079-10	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-1	1803079-10	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-25-1	1803079-10	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-1	1803079-10	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-1	1803079-10	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-25-1	1803079-10	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-1	1803079-10	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-25-1	1803079-10	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-25-1	1803079-10	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-25-1	1803079-10	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-1	1803079-10	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1803079-10	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1803079-10	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1803079-10	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-1	1803079-10	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1803079-10	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-1	1803079-10	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1803079-10	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1803079-10	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1803079-10	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1803079-10	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-1	1803079-10	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1803079-10	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1803079-10	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	Chloroform	2/3/2018	0.4	Y	y	vj		0.50	0.14	ug/L
MW-25-1	1803079-10	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1803079-10	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1803079-10	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-1	1803079-10	Methyl t-butyl ether	2/3/2018	0.45	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1803079-10	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1803079-10	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1803079-10	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-1	1803079-10	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1803079-10	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1803079-10	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1803079-10	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1803079-10	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1803079-10	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1803079-10	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1803079-10	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1803079-10	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1803079-09	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1803079-09	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1803079-09	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1803079-09	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1803079-09	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1803079-09	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1803079-09	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1803079-09	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1803079-09	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1803079-09	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1803079-09	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1803079-09	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1803079-09	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1803079-09	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1803079-09	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1803079-09	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1803079-09	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1803079-09	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1803079-09	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-2	1803079-09	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1803079-09	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1803079-09	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1803079-09	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1803079-09	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1803079-09	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-2	1803079-09	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1803079-09	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-2	1803079-09	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1803079-09	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1803079-09	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1803079-09	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1803079-09	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1803079-09	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-25-2	1803079-09	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-25-2	1803079-09	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-25-2	1803079-09	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-2	1803079-09	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-25-2	1803079-09	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-2	1803079-09	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-2	1803079-09	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-25-2	1803079-09	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1803079-09	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1803079-09	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-2	1803079-09	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-25-2	1803079-09	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-25-2	1803079-09	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-25-2	1803079-09	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-25-2	1803079-09	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-25-2	1803079-09	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-25-2	1803079-09	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-25-2	1803079-09	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-25-2	1803079-09	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-25-2	1803079-09	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-25-2	1803079-09	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1803079-09	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1803079-09	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1803079-09	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1803079-09	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1803079-09	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1803079-09	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1803079-09	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-2	1803079-09	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1803079-09	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1803079-09	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1803079-09	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-2	1803079-09	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1803079-09	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-2	1803079-09	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-2	1803079-09	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1803079-09	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-25-2	1803079-09	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-2	1803079-09	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-2	1803079-09	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-2	1803079-09	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1803079-09	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1803079-08	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1803079-08	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1803079-08	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1803079-08	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1803079-08	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-25-3	1803079-08	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-3	1803079-08	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1803079-08	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1803079-08	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1803079-08	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-3	1803079-08	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-3	1803079-08	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-3	1803079-08	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1803079-08	Chloroform	2/3/2018	0.4	Y	y	v j		0.50	0.14	ug/L
MW-25-3	1803079-08	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1803079-08	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1803079-08	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-3	1803079-08	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1803079-08	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1803079-08	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1803079-08	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1803079-08	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-3	1803079-08	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-3	1803079-08	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-3	1803079-08	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1803079-08	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-3	1803079-08	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1803079-08	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-3	1803079-08	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1803079-08	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-25-3	1803079-08	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-25-3	1803079-08	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-25-3	1803079-08	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-3	1803079-08	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-25-3	1803079-08	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-3	1803079-08	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-3	1803079-08	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-3	1803079-08	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-25-3	1803079-08	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-3	1803079-08	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1803079-08	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-25-3	1803079-08	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-25-3	1803079-08	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-25-3	1803079-08	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-25-3	1803079-08	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-25-3	1803079-08	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-25-3	1803079-08	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-25-3	1803079-08	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1803079-08	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-25-3	1803079-08	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1803079-08	Tetrachloroethene	2/3/2018	0.33	Y	y	v j		0.50	0.23	ug/L
MW-25-3	1803079-08	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1803079-08	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1803079-08	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1803079-08	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1803079-08	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1803079-08	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1803079-08	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-3	1803079-08	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1803079-08	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1803079-08	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1803079-08	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1803079-08	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-25-3	1803079-08	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-3	1803079-08	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-3	1803079-08	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1803079-08	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-25-3	1803079-08	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-3	1803079-08	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-3	1803079-08	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-4	1803079-07	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1803079-07	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1803079-07	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1803079-07	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1803079-07	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1803079-07	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1803079-07	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1803079-07	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1803079-07	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1803079-07	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1803079-07	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-4	1803079-07	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1803079-07	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1803079-07	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1803079-07	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1803079-07	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1803079-07	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1803079-07	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1803079-07	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1803079-07	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1803079-07	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1803079-07	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1803079-07	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1803079-07	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1803079-07	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1803079-07	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1803079-07	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1803079-07	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1803079-07	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1803079-07	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-25-4	1803079-07	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-25-4	1803079-07	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-25-4	1803079-07	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-4	1803079-07	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1803079-07	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-4	1803079-07	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-25-4	1803079-07	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-25-4	1803079-07	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-25-4	1803079-07	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-25-4	1803079-07	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-25-4	1803079-07	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-25-4	1803079-07	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-25-4	1803079-07	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-25-4	1803079-07	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-25-4	1803079-07	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-4	1803079-07	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1803079-07	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-4	1803079-07	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1803079-07	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-25-4	1803079-07	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-4	1803079-07	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
MW-25-4	1803079-07	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-4	1803079-07	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1803079-07	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-4	1803079-07	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1803079-07	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-25-4	1803079-07	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-25-4	1803079-07	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-25-4	1803079-07	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-4	1803079-07	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-4	1803079-07	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1803079-07	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1803079-07	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1803079-07	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1803079-07	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1803079-07	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1803079-07	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-4	1803079-07	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1803079-07	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-4	1803079-07	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1803079-07	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1803079-07	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1803079-07	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1803079-07	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1803079-07	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1803079-07	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1803079-07	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-4	1803079-07	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1803079-07	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1803079-07	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1803079-07	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1803079-07	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1803079-06	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-25-5	1803079-06	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-5	1803079-06	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-5	1803079-06	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-5	1803079-06	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-25-5	1803079-06	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1803079-06	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1803079-06	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1803079-06	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1803079-06	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1803079-06	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1803079-06	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1803079-06	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1803079-06	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1803079-06	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1803079-06	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1803079-06	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1803079-06	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1803079-06	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1803079-06	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1803079-06	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-5	1803079-06	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-25-5	1803079-06	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-5	1803079-06	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-25-5	1803079-06	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-25-5	1803079-06	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-25-5	1803079-06	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-5	1803079-06	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-5	1803079-06	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-5	1803079-06	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-5	1803079-06	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-25-5	1803079-06	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1803079-06	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-5	1803079-06	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-25-5	1803079-06	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-25-5	1803079-06	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-25-5	1803079-06	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-25-5	1803079-06	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-25-5	1803079-06	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-25-5	1803079-06	4-Bromofluorobenzene (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-25-5	1803079-06	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-25-5	1803079-06	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-25-5	1803079-06	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-5	1803079-06	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-25-5	1803079-06	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1803079-06	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1803079-06	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-5	1803079-06	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1803079-06	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-5	1803079-06	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1803079-06	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1803079-06	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1803079-06	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1803079-06	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1803079-06	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1803079-06	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1803079-06	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1803079-06	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1803079-06	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-5	1803079-06	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1803079-06	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1803079-06	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1803079-06	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1803079-06	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1803079-06	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1803079-06	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1803079-06	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1803079-06	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1803079-06	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1803079-06	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1803079-06	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1803079-06	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1803079-06	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1803079-06	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-012918	1803079-12	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
SB-2-012918	1803079-12	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-012918	1803079-12	Bromofom	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
SB-2-012918	1803079-12	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-012918	1803079-12	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-012918	1803079-12	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-012918	1803079-12	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-012918	1803079-12	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-012918	1803079-12	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
SB-2-012918	1803079-12	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
SB-2-012918	1803079-12	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
SB-2-012918	1803079-12	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-2-012918	1803079-12	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
SB-2-012918	1803079-12	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
SB-2-012918	1803079-12	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
SB-2-012918	1803079-12	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-2-012918	1803079-12	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-012918	1803079-12	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
SB-2-012918	1803079-12	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
SB-2-012918	1803079-12	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
SB-2-012918	1803079-12	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
SB-2-012918	1803079-12	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
SB-2-012918	1803079-12	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-012918	1803079-12	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
SB-2-012918	1803079-12	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-012918	1803079-12	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
SB-2-012918	1803079-12	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
SB-2-012918	1803079-12	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
SB-2-012918	1803079-12	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-012918	1803079-12	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-012918	1803079-12	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-012918	1803079-12	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
SB-2-012918	1803079-12	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-012918	1803079-12	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
SB-2-012918	1803079-12	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-012918	1803079-12	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
SB-2-012918	1803079-12	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-012918	1803079-12	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-012918	1803079-12	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-012918	1803079-12	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-012918	1803079-12	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-012918	1803079-12	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
SB-2-012918	1803079-12	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-012918	1803079-12	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-012918	1803079-12	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-012918	1803079-12	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-012918	1803079-12	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-012918	1803079-12	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-012918	1803079-12	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-012918	1803079-12	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-012918	1803079-12	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG:

18-03079

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-012918	1803079-12	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
SB-2-012918	1803079-12	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-012918	1803079-12	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
SB-2-012918	1803079-12	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-012918	1803079-12	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-012918	1803079-12	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-012918	1803079-12	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-012918	1803079-12	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-012918	1803079-12	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
SB-2-012918	1803079-12	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-012918	1803079-12	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
SB-2-012918	1803079-12	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-012918	1803079-12	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
SB-2-012918	1803079-12	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-012918	1803079-12	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
SB-2-012918	1803079-12	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
SB-2-012918	1803079-12	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-012918	1803079-01	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
TB-5-012918	1803079-01	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
TB-5-012918	1803079-01	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
TB-5-012918	1803079-01	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
TB-5-012918	1803079-01	Pentachloroethane	2/3/2018	2	Y	n	u		2.0	0.63	ug/L
TB-5-012918	1803079-01	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L

SDG:

18-03079

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-012918	1803079-01	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
TB-5-012918	1803079-01	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
TB-5-012918	1803079-01	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-5-012918	1803079-01	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
TB-5-012918	1803079-01	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-012918	1803079-01	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-012918	1803079-01	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
TB-5-012918	1803079-01	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-012918	1803079-01	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
TB-5-012918	1803079-01	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
TB-5-012918	1803079-01	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
TB-5-012918	1803079-01	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
TB-5-012918	1803079-01	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-012918	1803079-01	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
TB-5-012918	1803079-01	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
TB-5-012918	1803079-01	Acetone	2/3/2018	18	Y	y	v		10	6.6	ug/L
TB-5-012918	1803079-01	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-012918	1803079-01	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-5-012918	1803079-01	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-5-012918	1803079-01	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-012918	1803079-01	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-012918	1803079-01	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 18-03079

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-012918	1803079-01	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-012918	1803079-01	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-012918	1803079-01	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
TB-5-012918	1803079-01	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-012918	1803079-01	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
TB-5-012918	1803079-01	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-5-012918	1803079-01	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
TB-5-012918	1803079-01	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-012918	1803079-01	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
TB-5-012918	1803079-01	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
TB-5-012918	1803079-01	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
TB-5-012918	1803079-01	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
TB-5-012918	1803079-01	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
TB-5-012918	1803079-01	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
TB-5-012918	1803079-01	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
TB-5-012918	1803079-01	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-012918	1803079-01	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-012918	1803079-01	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-012918	1803079-01	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-012918	1803079-01	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG:

18-03079

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-012918	1803079-01	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-012918	1803079-01	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-012918	1803079-01	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-012918	1803079-01	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-012918	1803079-01	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-012918	1803079-01	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-5-012918	1803079-01	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-012918	1803079-01	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-5-012918	1803079-01	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-5-012918	1803079-01	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-5-012918	1803079-01	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-012918	1803079-01	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-012918	1803079-01	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-012918	1803079-01	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-012918	1803079-01	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
TB-5-012918	1803079-01	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-012918	1803079-01	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-012918	1803079-01	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-012918	1803079-01	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-012918	1803079-01	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG:

18-03079

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-012918	1803079-01	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-012918	1803079-01	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-5-012918	1803079-01	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-012918	1803079-01	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-5-012918	1803079-01	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-5-012918	1803079-01	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-5-012918	1803079-01	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-012918	1803079-01	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-012918	1803079-11	Hexavalent Chromium	1/29/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-2	1803079-05	Hexavalent Chromium	1/29/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-3	1803079-04	Hexavalent Chromium	1/29/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-4	1803079-03	Hexavalent Chromium	1/29/2018	0.0012	Y	y	v j		0.0020	0.0007	mg/L
MW-21-5	1803079-02	Hexavalent Chromium	1/29/2018	0.0014	Y	y	v j		0.0020	0.0007	mg/L
MW-25-1	1803079-10	Hexavalent Chromium	1/29/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-25-2	1803079-09	Hexavalent Chromium	1/29/2018	0.0015	Y	y	v j		0.0020	0.0007	mg/L
MW-25-3	1803079-08	Hexavalent Chromium	1/29/2018	0.0025	Y	y	v		0.0020	0.0007	mg/L
MW-25-4	1803079-07	Hexavalent Chromium	1/29/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-25-5	1803079-06	Hexavalent Chromium	1/29/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
SB-2-012918	1803079-12	Hexavalent Chromium	1/29/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

LDC #: 41286

EDD POPULATION COMPLETENESS WORKSHEET

Date: 3/19/18
 Page: 1 of 1
 2nd Reviewer: BA

The LDC job number listed above was entered by [Signature]

	EDD Process		Comments/Action
I.	EDD Completeness	-	
Ia.	- All methods present?	y	
Ib.	- All samples present/match report?	y	
Ic.	- All reported analytes present?	y	
Id.	- <u>(10%</u> or 100% verification of EDD?	y	
II.	EDD Preparation/Entry	-	
IIa.	- Carryover U/J?	N	
IIb.	- Reason Codes used? If so, note which codes.	y	Full written reason
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	y	Final Result, Qual Class (A or P)
III.	Reasonableness Checks	-	
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	y	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	y	
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	y	
IIId.	- Does the detect flag require changing for blank qualifier? If so, are all U results marked ND?	N/NA	
IIIe.	- Do blank concentrations in report match EDD where data was qualified due to blank contamination?	y	
IIIf.	- Were multiple results reported due to dilutions/reanalysis? If so, were results qualified appropriately?	N/NA	
IIIg.	- Are there any discrepancies between the data packet and the EDD?	N	

Notes: *see discrepancy sheet



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Tidewater, Inc.
3761 Attucks Drive
Powell, OH 43065
ATTN: Mr. David Conner

March 30, 2018

SUBJECT: NASA JPL, 1Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on March 2, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #41461:

<u>SDG #</u>	<u>Fraction</u>
18-03235, 18-03365, 18-03552	Volatiles, Chromium, Wet Chemistry

The data validation was performed under Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, National Functional Guidelines for Organic Superfund Methods Data Review, January 2017
- USEPA, National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007, update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
Project Manager/Senior Chemist

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03235

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-6-013018	1803235-01	Water	01/30/18
MW-4-3	1803235-02	Water	01/30/18
MW-4-2**	1803235-03**	Water	01/30/18
MW-4-1	1803235-04	Water	01/30/18
MW-12-5**	1803235-05**	Water	01/30/18
MW-12-4	1803235-06	Water	01/30/18
MW-12-3	1803235-07	Water	01/30/18
MW-12-2	1803235-08	Water	01/30/18
EB-6-013018	1803235-09	Water	01/30/18
MW-12-4MS	1803235-06MS	Water	01/30/18
MW-12-4MSD	1803235-06MSD	Water	01/30/18

**Indicates sample underwent Level IV review

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV evaluation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/03/18	Methyl iodide Pentachloroethane	43.4 97.4	All samples in SDG 18-03235	UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-6-013018 was identified as a trip blank. No contaminants were found.

Sample EB-6-013018 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, data were qualified as estimated in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018

Volatiles - Data Qualification Summary - SDG 18-03235

Sample	Compound	Flag	A or P	Reason
TB-6-013018 MW-4-3 MW-4-2** MW-4-1 MW-12-5** MW-12-4 MW-12-3 MW-12-2 EB-6-013018	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018

Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-03235

No Sample Data Qualified in this SDG

LDC #: 41461A1
 SDG #: 18-03235
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 2/9/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 20%. Y ² ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 30%
V.	Laboratory Blanks	AND	TB = 1. EB = 9
VI.	Field blanks	NO	TB = 1. EB = 9
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-6-013018	1803235-01	Water	01/30/18
2	MW-4-3	1803235-02	Water	01/30/18
3	MW-4-2**	1803235-03**	Water	01/30/18
4	MW-4-1	1803235-04	Water	01/30/18
5	MW-12-5**	1803235-05**	Water	01/30/18
6	MW-12-4	1803235-06	Water	01/30/18
7	MW-12-3	1803235-07	Water	01/30/18
8	MW-12-2	1803235-08	Water	01/30/18
9	EB-6-013018	1803235-09	Water	01/30/18
10	MW-12-4MS	1803235-06MS	Water	01/30/18
11	MW-12-4MSD	1803235-06MSD	Water	01/30/18
12				
13				

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 30%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) of continuing calibration < 30%?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a laboratory blank analyzed with each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LDC #: 4461A1

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) within 70-130%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within +/-30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$
 average RRF = sum of the RRFs/number of standards
 %RSD = 100 * (S/X)

A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs
 X = Mean of the RRFs

A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (10 std)	RRF (10 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL (MS-V5)	2/1/18	V (1st internal standard)	1.624214	1.624214	1.646539	1.646539	6.182654	6.183
			S (2nd internal standard)	0.3438405	0.3438404	0.3445493	0.3445493	3.878345	3.878
			EE (3rd internal standard)	1.786843	1.786843	1.808711	1.808711	9.620887	9.621
			HHH (4th internal standard)						
2			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						
3			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						
4			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$$

Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	02FEB061	2/3/18	V (1st internal standard)	1.646539	1.612715	1.612715	2.1	2.1
			S (2nd internal standard)	0.3445493	0.4073432	0.4073431	18.2	18.2
			EE (3rd internal standard)	1.808711	1.789044	1.789044	1.1	1.1
			HHH (4th internal standard)					
2			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					
3			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					
4			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 3

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.94	99.4	99.4	0
Bromofluorobenzene	↓	9.54	95.4	95.4	
1,2-Dichlorobenzene-d4 DCA	↓	10.95	110	110	d
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = |MSC - MSC| * 2 / (MSC + MSC)

MSC = Matrix spike concentration

MSC = Matrix spike duplicate concentration

MS/MSD sample: 10/11

Compound	Spike Added (µg)		Sample Concentration (µg)	Spiked Sample Concentration (µg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	25.000	25.000	ND	26.080	25.100	104	104	100	100	3.83	3.83
Trichloroethene			↓	24.900	24.990	99.6	99.6	100	100	0.361	0.361
Benzene				24.810	23.700	99.2	99.2	94.8	94.8	4.58	4.58
Toluene				23.690	23.860	94.8	94.8	95.4	95.4	0.715	0.715
Chlorobenzene			↓	23.950	25.500	95.8	95.8	102	102	6.27	6.27

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 4461A

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B023TT3-BS1

Compound	Spike Added		Spiked Sample Concentration		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	<u>25.00</u>	<u>NA</u>	<u>25.270</u>	<u>NA</u>	<u>101</u>	<u>100</u>				
Trichloroethene	↓		<u>30.590</u>	↓	<u>122</u>	<u>122</u>				
Benzene			<u>24.080</u>	↓	<u>963</u>	<u>963</u>				
Toluene			<u>23.860</u>	↓	<u>954</u>	<u>954</u>				
Chlorobenzene	↓		<u>24.560</u>	↓	<u>98.2</u>	<u>98.2</u>				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

- Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured
 A_{is} = Area of the characteristic ion (EICP) for the specific internal standard
 I_s = Amount of internal standard added in nanograms (ng)
 RRF = Relative response factor of the calibration standard.
 V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).
 Df = Dilution factor.
 %S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 3, 5:

$$\text{Conc.} = \frac{(2907)(10.00)(1)}{(31922)(0.3445493)(1)} = 0.26 \mu\text{g/L}$$

#	Sample ID	Compound	Reported Concentration <u>[Signature]</u>	Calculated Concentration ()	Qualification
	<u>3</u>	<u>5</u>	<u>0.26</u>		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03235

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-3	1803235-02	Water	01/30/18
MW-4-2**	1803235-03**	Water	01/30/18
MW-4-1	1803235-04	Water	01/30/18
MW-12-3	1803235-07	Water	01/30/18
MW-12-2	1803235-08	Water	01/30/18
EB-6-013018	1803235-09	Water	01/30/18
MW-4-3MS	1803235-02MS	Water	01/30/18
MW-4-3MSD	1803235-02MSD	Water	01/30/18
MW-4-3DUP	1803235-02DUP	Water	01/30/18
MW-12-2MS	1803235-08MS	Water	01/30/18
MW-12-2MSD	1803235-08MSD	Water	01/30/18
MW-12-2DUP	1803235-08DUP	Water	01/30/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.689 ug/L	MW-4-3 MW-4-2** MW-4-1 MW-12-3
PB (prep blank)	Chromium	0.858 ug/L	MW-12-2 EB-6-013018

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-4-3	Chromium	1.5 ug/L	1.5U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-4-2**	Chromium	1.5 ug/L	1.5U ug/L
MW-4-1	Chromium	0.61 ug/L	0.61U ug/L
MW-12-3	Chromium	0.89 ug/L	0.89U ug/L
MW-12-2	Chromium	1.1 ug/L	1.1U ug/L
EB-6-013018	Chromium	1.1 ug/L	1.1U ug/L

VI. Field Blanks

Sample EB-6-013018 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-6-013018	Chromium	1.1

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in six samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-03235

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-03235

Sample	Analyte	Modified Final Concentration	A or P
MW-4-3	Chromium	1.5U ug/L	A
MW-4-2**	Chromium	1.5U ug/L	A
MW-4-1	Chromium	0.61U ug/L	A
MW-12-3	Chromium	0.89U ug/L	A
MW-12-2	Chromium	1.1U ug/L	A
EB-6-013018	Chromium	1.1U ug/L	A

LDC #: 41461A4a
 SDG #: 18-03235
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 03/09/18
 Page: 1 of 1
 Reviewer: ATL
 2nd Reviewer: CE

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	6=EB
VII.	Matrix Spike/Matrix Spike Duplicates	A	(7,8), (10,11)
VIII.	Duplicate sample analysis	A	9,12
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	only reviewed for level IV validation
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-4-3	1803235-02	Water	01/30/18
2	MW-4-2**	1803235-03**	Water	01/30/18
3	MW-4-1	1803235-04	Water	01/30/18
4	MW-12-3	1803235-07	Water	01/30/18
5	MW-12-2	1803235-08	Water	01/30/18
6	EB-6-013018	1803235-09	Water	01/30/18
7	MW-4-3MS	1803235-02MS	Water	01/30/18
8	MW-4-3MSD	1803235-02MSD	Water	01/30/18
9	MW-4-3DUP	1803235-02DUP	Water	01/30/18
10	MW-12-2MS	1803235-08MS	Water	01/30/18
11	MW-12-2MSD	1803235-08MSD	Water	01/30/18
12	MW-12-2DUP	1803235-08DUP	Water	01/30/18
13				

Notes: _____

Method:Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) < 20% for waters and < 35% for soil samples? A control limit of +/- RL (+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were < 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XIII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

**VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES**

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 1 to 4

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	3	4					
Cr		0.689		3.445	1.5	1.5	0.61	0.89					

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 5, 6

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	5	6							
Cr		0.858		4.29	1.1	1.1							


Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 41461A4a
SDG #: 18-03235

VALIDATION FINDINGS WORKSHEET

Field Blanks

Page: 1 of 1
Reviewer: ATL
2nd reviewer: 

METHOD: Trace Metals (EPA CLP SOW ILM02.1)

- Y N N/A Were field blanks identified in this SDG?
- Y N N/A Were target analytes detected in the field blanks?

Sample: 6 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (ug/L)
Cr	1.1

LDC #: 41461A4a

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: AB
 2nd Reviewer: CE

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV1	ICP/MS (Initial calibration) 02/02 @ 09:57	Cr	51.346	50.000	103	103	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVC	ICP/MS (Continuing calibration) 02/02 @ 23:28	Cr	41.180	40.000	103	103	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
Mg	Mass Axis	23.985	23,975	± 0.1 AMU	NA	Y
ln	%RSD	114.9	0.5	≤ 5% RSD	0	Y

Comments:

LDC #: 41461A4A

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: [Signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
 True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
 D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$
 Where, I = Initial Sample Result (mg/L)
 SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 02/02 @ 22:54	Cr	43.153	40.000	108	108	Y
7	Matrix spike 02/02 @ 23:11	Cr	(SSR-SR) 40.816	40.000	102	102	Y
7/8	Duplicate 02/02 @ 23:15	Cr	41.636	42.316	1.62	1.62	Y
1	Post digestion spike 02/02 @ 23:18	Cr	39.694	40.000	99.2	99.4	Y
1	ICP serial dilution 02/02 @ 23:08	Cr	1.53	1.5	2	2	Y

Comments: _____

LDC #: 41461A4a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATC
2nd reviewer: _____

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Cr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation: #2

$1.468 \approx 1.5$

- RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
	2	Cr (02/02/18 @ 23:22)	1.5	1.5	Y

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03235

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-3	1803235-02	Water	01/30/18
MW-4-2**	1803235-03**	Water	01/30/18
MW-4-1	1803235-04	Water	01/30/18
MW-12-5**	1803235-05**	Water	01/30/18
MW-12-4	1803235-06	Water	01/30/18
MW-12-3	1803235-07	Water	01/30/18
MW-12-2	1803235-08	Water	01/30/18
EB-6-013018	1803235-09	Water	01/30/18
MW-4-2MS	1803235-03MS	Water	01/30/18
MW-4-2MSD	1803235-03MSD	Water	01/30/18
MW-4-2DUP	1803235-03DUP	Water	01/30/18
MW-12-4MS	1803235-06MS	Water	01/30/18
MW-12-4MSD	1803235-06MSD	Water	01/30/18
MW-12-4DUP	1803235-06DUP	Water	01/30/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method 7196

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Perchlorate	0.79270 ug/L	MW-4-3 MW-4-2** MW-4-1 MW-12-5** MW-12-4

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-4-2**	Perchlorate	1.1 ug/L	1.1U ug/L
MW-12-5**	Perchlorate	2.6 ug/L	2.6U ug/L
MW-12-4	Perchlorate	2.6 ug/L	2.6U ug/L

V. Field Blanks

Sample EB-6-013018 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-03235

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-03235

Sample	Analyte	Modified Final Concentration	A or P
MW-4-2**	Perchlorate	1.1U ug/L	A
MW-12-5**	Perchlorate	2.6U ug/L	A
MW-12-4	Perchlorate	2.6U ug/L	A

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	SW	
V	Field blanks	ND	8 = EB
VI.	Matrix Spike/Matrix Spike Duplicates	A	(9,10), (12,13)
VII.	Duplicate sample analysis	A	11, 14
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-4-3	1803235-02	Water	01/30/18
2	MW-4-2**	1803235-03**	Water	01/30/18
3	MW-4-1	1803235-04	Water	01/30/18
4	MW-12-5**	1803235-05**	Water	01/30/18
5	MW-12-4	1803235-06	Water	01/30/18
6	MW-12-3	1803235-07	Water	01/30/18
7	MW-12-2	1803235-08	Water	01/30/18
8	EB-6-013018	1803235-09	Water	01/30/18
9	MW-4-2MS	1803235-03MS	Water	01/30/18
10	MW-4-2MSD	1803235-03MSD	Water	01/30/18
11	MW-4-2DUP	1803235-03DUP	Water	01/30/18
12	MW-12-4MS	1803235-06MS	Water	01/30/18
13	MW-12-4MSD	1803235-06MSD	Water	01/30/18
14	MW-12-4DUP	1803235-06DUP	Water	01/30/18
15				
16				
17				

Notes: _____

VALIDATION FINDINGS CHECKLIST

Method: Inorganics (EPA Method see cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?		✓		

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-8	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
1,2,3,6,7,8	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
12,13,14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
9,10,11	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: Inorganics, Method See Cover

Conc. units: ug/L

Associated Samples: 1 to 5

Analyte	Blank ID	Blank ID	Blank Action Limit												
	PB	ICB/CCB (ug/L)		2	4	5									
CLO4		0.79270	3.9635	1.1	2.6	2.6									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 41461AG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: ATL
 2nd Reviewer: d

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄⁻ was recalculated. Calibration date: 02/21/18

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	ClO ₄ ⁻	s1	2	0.0023	0.9991	0.9985	Y
		s2	4	0.0051			
		s3	6	0.0082			
		s4	10	0.0129			
		s5	20	0.0272			
CCV ₂ (02/22 @ 00:14) Calibration verification	ClO ₄ ⁻	FOUND 10.479	TRUE 10.000		105	101	Y
ICV Calibration verification	Cr6+	49.48	50.000		98.96	98.96	Y
CCV ₂ (01/31 @ 00:12) Calibration verification	Cr6+	48.43	50.000		96.9	96.9	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41461AG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: [Signature]

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	mg/L Element	mg/L Found / S (units)	mg/L True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample 02/21 @ 22:11	ClO ₄ ⁻	10.479	10.000	105	107	Y
9	Matrix spike sample 01/31 @ 07:41	Cr ⁶⁺	(SSR-SR) 0.0514736 (mg/L)	0.052632 (mg/L)	97.8	97.8	Y
9/10	Duplicate sample 01/31 @ 07:41	Cr ⁶⁺	0.0506736 (mg/L)	0.051468 (mg/L)	1.55	1.55	Y

Comments: _____

LDC #: 41461AG

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
 Reviewer: ATL
 2nd reviewer:

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Have results been reported and calculated correctly?
- N N/A Are results within the calibrated range of the instruments?
- N N/A Are all detection limits below the CRQL?

Compound (analyte) results for ClO₄⁻ reported with a positive detect were recalculated and verified using the following equation:

Concentration = $A \times (726.84312970) + 0.302968$

Recalculation: $(0.004) \times (726.84312970) + 0.302968 =$
3.21034

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	2	Perchlorate (02/21 @ 22:57)	1.1	1.0	Y
	2	Cr ⁶⁺ (01/31/18 @ 00:08)	ND	ND	Y
	4	Perchlorate (02/21 @ 23:28)	2.6	3.2	Y
	4				

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03365

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-7-013118	1803365-01	Water	01/31/18
MW-23-3	1803365-04	Water	01/31/18
MW-23-2	1803365-05	Water	01/31/18
MW-23-1	1803365-06	Water	01/31/18
MW-11-4	1803365-07	Water	01/31/18
MW-11-3	1803365-08	Water	01/31/18
MW-11-2	1803365-09	Water	01/31/18
MW-11-1**	1803365-10**	Water	01/31/18
EB-7-013118	1803365-11	Water	01/31/18

**Indicates sample underwent Level IV review

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV evaluation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/03/18	Bromomethane	55.2	All samples in SDG 18-03365	UJ (all non-detects)	A
02/03/18	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	37.0 58.2 73.9	All samples in SDG 18-03365	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-7-013118 was identified as a trip blank. No contaminants were found.

Sample EB-7-013118 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, data were qualified as estimated in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-03365

Sample	Compound	Flag	A or P	Reason
TB-7-013118 MW-23-3 MW-23-2 MW-23-1 MW-11-4 MW-11-3 MW-11-2 MW-11-1** EB-7-013118	Bromomethane trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-03365

No Sample Data Qualified in this SDG

LDC #: 41461B1
 SDG #: 18-03365
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 2/9/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	RSB ≤ 20%. Y ² (CV ≤ 35%)
IV.	Continuing calibration	M	CCV ≤ 35%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1. EB = 9
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-7-013118	1803365-01	Water	01/31/18
2	MW-23-3	1803365-04	Water	01/31/18
3	MW-23-2	1803365-05	Water	01/31/18
4	MW-23-1	1803365-06	Water	01/31/18
5	MW-11-4	1803365-07	Water	01/31/18
6	MW-11-3	1803365-08	Water	01/31/18
7	MW-11-2	1803365-09	Water	01/31/18
8	MW-11-1**	1803365-10**	Water	01/31/18
9	EB-7-013118	1803365-11	Water	01/31/18
10				
11				
12				
13				

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	/			
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) < 30%?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	/			
Were all percent differences (%D) of continuing calibration < 30%?		/		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed with each analysis batch?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?		/		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) within 70-130%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within +/-30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

VALIDATION FINDINGS WORKSHEET

Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (10 std)	RRF (10 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL (MS-V5)	2/1/18	V (1st internal standard)	1.624214	1.624214	1.646539	1.646539	6.182654	6.183
			S (2nd internal standard)	0.3438405	0.3438404	0.3445493	0.3445493	3.878345	3.878
			EE (3rd internal standard)	1.786843	1.786843	1.808711	1.808711	9.620887	9.621
			HHH (4th internal standard)						
2			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						
3			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						
4			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	02FEB061	2/3/18	V (1st internal standard)	1.646539	1.612715	1.612715	2.1	2.1
			S (2nd internal standard)	0.3445493	0.4073432	0.4073431	18.2	18.2
			EE (3rd internal standard)	1.808711	1.789044	1.789044	1.1	1.1
			HHH (4th internal standard)					
2	02FEB89	2/3/18	QQQ (1st internal standard)	1.646539	1.565228	1.565228	4.9	4.9
			S (2nd internal standard)	0.3445493	0.3535852	0.3535851	2.6	2.6
			EE (3rd internal standard)	1.808711	1.677803	1.677803	7.2	7.2
			HHH (4th internal standard)					
3			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					
4			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: A1461B1

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: Q
 2nd reviewer: SV4

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: 8

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	10.03	100	100	0
Bromofluorobenzene	↓	10.43	104	104	↓
4,2-Dichlorobenzene-d4 <u>BCA</u>	↓	11.74	117	117	↓
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8					
Bromofluorobenzene					
1,2-Dichlorobenzene-d4					
Dibromofluoromethane					

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B003713-BS1

Compound	Spike Added (<u>µg/L</u>)		Spiked Sample Concentration (<u>µg/L</u>)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	<u>25.200</u>	<u>NA</u>	<u>25.270</u>	<u>NA</u>	<u>101</u>	<u>101</u>				
Trichloroethene	↓	↓	<u>30.590</u>	↓	<u>122</u>	<u>122</u>				
Benzene	↓	↓	<u>24.080</u>	↓	<u>963</u>	<u>963</u>				
Toluene	↓	↓	<u>23.860</u>	↓	<u>95.4</u>	<u>95.4</u>				
Chlorobenzene	↓	↓	<u>24.560</u>	↓	<u>98.2</u>	<u>98.2</u>				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03365

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-4	1803365-02	Water	01/31/18
DUP-5-1Q18	1803365-03	Water	01/31/18
MW-23-3	1803365-04	Water	01/31/18
MW-23-2	1803365-05	Water	01/31/18
MW-23-1	1803365-06	Water	01/31/18
MW-11-3	1803365-08	Water	01/31/18
MW-11-2	1803365-09	Water	01/31/18
MW-11-1**	1803365-10**	Water	01/31/18
EB-7-013118	1803365-11	Water	01/31/18
MW-23-4MS	1803365-02MS	Water	01/31/18
MW-23-4MSD	1803365-02MSD	Water	01/31/18
MW-23-4DUP	1803365-02DUP	Water	01/31/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.555 ug/L	All samples in SDG 18-03365

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-23-2	Chromium	1.80 ug/L	1.80U ug/L
MW-23-1	Chromium	1.50 ug/L	1.50U ug/L
MW-11-3	Chromium	1.1 ug/L	1.1U ug/L
MW-11-2	Chromium	0.82 ug/L	0.82U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-11-1**	Chromium	0.86 ug/L	0.86U ug/L
EB-7-013118	Chromium	0.89 ug/L	0.89U ug/L

VI. Field Blanks

Sample EB-7-013118 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-7-013118	Chromium	0.89

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples MW-23-4 and DUP-5-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-23-4	DUP-5-1Q18	
Chromium	3.1	3.4	9

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in six samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-03365

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-03365

Sample	Analyte	Modified Final Concentration	A or P
MW-23-2	Chromium	1.80U ug/L	A
MW-23-1	Chromium	1.50U ug/L	A
MW-11-3	Chromium	1.1U ug/L	A
MW-11-2	Chromium	0.82U ug/L	A
MW-11-1**	Chromium	0.86U ug/L	A
EB-7-013118	Chromium	0.89U ug/L	A

LDC #: 41461B4a
 SDG #: 18-03365
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 03/13/18
 Page: 1 of 1
 Reviewer: *ATL*
 2nd Reviewer: *[Signature]*

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	9 = EB
VII.	Matrix Spike/Matrix Spike Duplicates	A	(10, 11)
VIII.	Duplicate sample analysis	A	12
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	ICS
XI.	Field Duplicates	SW	(1, 2)
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV only
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-23-4	1803365-02	Water	01/31/18
2	DUP-5-1Q18	1803365-03	Water	01/31/18
3	MW-23-3	1803365-04	Water	01/31/18
4	MW-23-2	1803365-05	Water	01/31/18
5	MW-23-1	1803365-06	Water	01/31/18
6	MW-11-3	1803365-08	Water	01/31/18
7	MW-11-2	1803365-09	Water	01/31/18
8	MW-11-1**	1803365-10**	Water	01/31/18
9	EB-7-013118	1803365-11	Water	01/31/18
10	MW-23-4MS	1803365-02MS	Water	01/31/18
11	MW-23-4MSD	1803365-02MSD	Water	01/31/18
12	MW-23-4DUP	1803365-02DUP	Water	01/31/18
13				

Notes: _____

Method:Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) < 20% for waters and < 35% for soil samples? A control limit of +/- RL (+/-2X RL for soil) was used for samples that were < 5X the RL, including when only one of the duplicate sample values were < 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: NA

Reviewer: ATL

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: All

2nd Reviewer: 

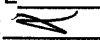
Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	4	5	6	7	8	9			
Cr		0.555		2.775	1.80	1.50	1.1	0.82	0.86	0.89			

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC#: 41461B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: 

METHOD: Metals (EPA Method 6010B/6020/7000/200.8)

Analyte	Concentration (ug/L)		RPD	
	1	2		
Chromium	3.1	3.4	9	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41461B4a.wpd

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV1	ICP/MS (Initial calibration) (2/5 @ 09:12)	Cr	51.067	50.000	102	102	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVA	ICP/MS (Continuing calibration) (2/5 @ 17:44)	Cr	41.600	40.000	104	104	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
Rh	Mass Axis	102.905	102.875	± 0.1 AMU	NA	Y
Pb	%RSD	208.0	1.0	≤ 5% RSD	0	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
 True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
 D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$
 Where, I = Initial Sample Result (mg/L)
 SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	(mg/L) Found / S / I (units)	(mg/L) True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample	Cr	42,227	40,000	106	106	Y
10	Matrix spike 02/05 @ 17:27	Cr	(SSR-SR) 39,208	40,000	98	98	Y
10/11	Duplicate 02/05 @ 17:31	Cr	42,920	42,308	1,44	1,44	Y
1	Post digestion spike 02/05 @ 17:34	Cr	40,799	40,000	102	102	Y
1	ICP serial dilution 02/05 @ 17:24	Cr	2,935	3,1	5,3	5,3	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03365

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-4	1803365-02	Water	01/31/18
DUP-5-1Q18	1803365-03	Water	01/31/18
MW-23-3	1803365-04	Water	01/31/18
MW-23-2	1803365-05	Water	01/31/18
MW-23-1	1803365-06	Water	01/31/18
MW-11-4	1803365-07	Water	01/31/18
MW-11-3	1803365-08	Water	01/31/18
MW-11-2	1803365-09	Water	01/31/18
MW-11-1**	1803365-10**	Water	01/31/18
EB-7-013118	1803365-11	Water	01/31/18
MW-11-1MS	1803365-10MS	Water	01/31/18
MW-11-1MSD	1803365-10MSD	Water	01/31/18
MW-11-1DUP	1803365-10DUP	Water	01/31/18

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Chloride, Nitrate as Nitrogen, and Sulfate by Environmental Protection Agency (EPA) Method 300.0

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA SW 846 Method 7196

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-7-013118 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-23-4 and DUP-5-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	MW-23-4	DUP-5-1Q18	
Hexavalent chromium	0.0030	0.0028	7

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-03365

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-03365

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	<i>A, A</i>	
II	Initial calibration	<i>A</i>	
III.	Calibration verification	<i>A</i>	
IV	Laboratory Blanks	<i>A</i>	
V	Field blanks	<i>ND</i>	<i>10=EB</i>
VI.	Matrix Spike/Matrix Spike Duplicates	<i>A</i>	
VII.	Duplicate sample analysis	<i>A</i>	
VIII.	Laboratory control samples	<i>A</i>	<i>LCS</i>
IX.	Field duplicates	<i>SW</i>	<i>(1,2)</i>
X.	Sample result verification	<i>A</i>	Not reviewed for Level III validation
XI	Overall assessment of data	<i>A</i>	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-23-4	1803365-02	Water	01/31/18
2	DUP-5-1Q18	1803365-03	Water	01/31/18
3	MW-23-3	1803365-04	Water	01/31/18
4	MW-23-2	1803365-05	Water	01/31/18
5	MW-23-1	1803365-06	Water	01/31/18
6	MW-11-4	1803365-07	Water	01/31/18
7	MW-11-3	1803365-08	Water	01/31/18
8	MW-11-2	1803365-09	Water	01/31/18
9	MW-11-1**	1803365-10**	Water	01/31/18
10	EB-7-013118	1803365-11	Water	01/31/18
11	MW-11-1MS	1803365-10MS	Water	01/31/18
12	MW-11-1MSD	1803365-10MSD	Water	01/31/18
13	MW-11-1DUP	1803365-10DUP	Water	01/31/18
14				
15				
16				

Notes: _____

VALIDATION FINDINGS CHECKLIST

Method: Inorganics (EPA Method see cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?		✓		
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?		✓		

LDC #: 41461BC

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓	✓		

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
9	pH TDS (Cl) F (NO ₃) (NO ₂) (SO ₄) (O-PO ₄) Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
3→10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ (ClO ₄)
1→5,7→10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC (Cr6+) ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
11,12,13	pH TDS (Cl) F (NO ₃) (NO ₂) (SO ₄) (O-PO ₄) Alk CN NH ₃ TKN TOC (Cr6+) (ClO ₄)
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

LDC# 41461B6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: ①

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	1	2		
Hexavalent Chromium	0.0030	0.0028	7	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\41461B6.wpd

LDC #: 41461BG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: ATJ
 2nd Reviewer: [Signature]

Method: Inorganics, Method see coverThe correlation coefficient (r) for the calibration of Cl⁻ was recalculated. Calibration date: 01/29/18

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found X 100}}{\text{True}}$$

Where,

Found = concentration of each analyte measured in the analysis of the ICV or CCV solution

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/l)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial Calibration Verification	Cl ⁻	s1	0.5	0.08	0.999747	0.999980	Y
		s2	4	0.796			
		s3	20	3.561			
		s4	50	10.185			
		s5	100	22.43			
		s6	200	47.985			
CCV ₂ (1/31 @ 22:18) Calibration verification	Cr ⁶⁺	FOUND 0.0470	TRUE 0.050000		94.0	94.2	Y
CCV ₂ (2/22 @ 22:31) Calibration verification	ClO ₄ ⁻	10.88	10.00		109	109	Y
CC ₁ (2/1 @ 12:30) Calibration verification	O-PO ₄ ⁻	0.20685	0.20000		103	103	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 41461 BG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
 Reviewer: AK
 2nd Reviewer: [Signature]

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
 True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
 D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	mg/L Found / S (units)	mg/L True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample	Cr6+	0.0498	0.050000	100	98.8	Y
11	Matrix spike sample	NO ₂ -N	(SSR-SR) 0.53802	0.52632	102	102	Y
11/12	Duplicate sample	NO ₂ -N	0.53828	0.53802	0.0483	0.0491	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03552

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-8-020118	1803552-01	Water	02/01/18
MW-8	1803552-02	Water	02/01/18
MW-13	1803552-03	Water	02/01/18
MW-16	1803552-04	Water	02/01/18
MW-7	1803552-05	Water	02/01/18
EB-8-020118	1803552-06	Water	02/01/18
MW-6	1803552-07	Water	02/01/18
MW-10	1803552-08	Water	02/01/18
MW-5	1803552-09	Water	02/01/18
DUP-6-1Q18	1803552-11	Water	02/01/18
MW-8MS	1803552-02MS	Water	02/01/18
MW-8MSD	1803552-02MSD	Water	02/01/18

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/13/18	Bromomethane	45.2	All samples in SDG 18-03552	UJ (all non-detects)	A
02/13/18	trans-1,4-Dichloro-2-butene Methyl iodide	30.4 43.1	All samples in SDG 18-03552	UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample TB-8-020118 was identified as a trip blank. No contaminants were found.

Sample EB-8-020118 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples MW-6 and DUP-6-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-6	DUP-6-1Q18	
Chloroform	0.47	0.38	21
Tetrachloroethene	0.33	0.31	6
Trichloroethene	1.6	1.5	6

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, data were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Volatiles - Data Qualification Summary - SDG 18-03552

Sample	Compound	Flag	A or P	Reason
TB-8-020118 MW-8 MW-13 MW-16 MW-7 EB-8-020118 MW-6 MW-10 MW-5 DUP-6-1Q18	Bromomethane trans-1,4-Dichloro-2-butene Methyl iodide	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 1Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-03552

No Sample Data Qualified in this SDG

LDC #: 41461C1
 SDG #: 18-03552
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/1/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: JVC

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 20%. ICV ≤ 30%
IV.	Continuing calibration	W	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=6
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	W	D = 7+10
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	TB-8-020118	1803552-01	Water	02/01/18
2	MW-8	1803552-02	Water	02/01/18
3	MW-13	1803552-03	Water	02/01/18
4	MW-16	1803552-04	Water	02/01/18
5	MW-7	1803552-05	Water	02/01/18
6	EB-8-020118	1803552-06	Water	02/01/18
7	MW-6 D	1803552-07	Water	02/01/18
8	MW-10	1803552-08	Water	02/01/18
9	MW-5	1803552-09	Water	02/01/18
10	DUP-6-1Q18 D	1803552-11	Water	02/01/18
11	MW-8MS	1803552-02MS	Water	02/01/18
12	MW-8MSD	1803552-02MSD	Water	02/01/18
13				

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC#: 14461C1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: 9
2nd Reviewer: JV

METHOD: GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	7	10	
K	0.47	0.38	21
AA	0.33	0.31	6
S	1.6	1.5	6

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03552

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-8	1803552-02	Water	02/01/18
MW-13	1803552-03	Water	02/01/18
MW-16	1803552-04	Water	02/01/18
MW-7	1803552-05	Water	02/01/18
EB-8-020118	1803552-06	Water	02/01/18
MW-6	1803552-07	Water	02/01/18
MW-10	1803552-08	Water	02/01/18
MW-5	1803552-09	Water	02/01/18
MW-15	1803552-10	Water	02/01/18
DUP-6-1Q18	1803552-11	Water	02/01/18
DUP-7-1Q18	1803552-12	Water	02/01/18
MW-8MS	1803552-02MS	Water	02/01/18
MW-8MSD	1803552-02MSD	Water	02/01/18
MW-8DUP	1803552-02DUP	Water	02/01/18
DUP-7-1Q18MS	1803552-12MS	Water	02/01/18
DUP-7-1Q18MSD	1803552-12MSD	Water	02/01/18
DUP-7-1Q18DUP	1803552-12DUP	Water	02/01/18

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

ICP interference check sample analyses were not required by the method.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.877 ug/L	MW-8 MW-13 MW-16 MW-7 EB-8-020118 MW-6 MW-10 MW-5 MW-15 DUP-6-1Q18
PB (prep blank)	Chromium	0.591 ug/L	DUP-7-1Q18

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-8	Chromium	3.8 ug/L	3.8U ug/L
EB-8-020118	Chromium	0.79 ug/L	0.79U ug/L
MW-5	Chromium	2.0 ug/L	2.0U ug/L

VI. Field Blanks

Sample EB-8-020118 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-8-020118	Chromium	0.79

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples MW-6 and DUP-6-1Q18 and samples MW-15 and DUP-7-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-6	DUP-6-1Q18	
Chromium	90	32	95

Analyte	Concentration (ug/L)		RPD
	MW-15	DUP-7-1Q18	
Chromium	6.8	5.0	31

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Chromium - Data Qualification Summary - SDG 18-03552

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 18-03552

Sample	Analyte	Modified Final Concentration	A or P
MW-8	Chromium	3.8U ug/L	A
EB-8-020118	Chromium	0.79U ug/L	A
MW-5	Chromium	2.0U ug/L	A

LDC #: 41461C4a
 SDG #: 18-03552
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 03/12/18
 Page: 1 of 2
 Reviewer: *ATC*
 2nd Reviewer: *ATC*

METHOD: Chromium (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	5=EB
VII.	Matrix Spike/Matrix Spike Duplicates	A	(12,13), (15,16)
VIII.	Duplicate sample analysis	A	14, 17
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(6,10), (9,11)
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	



Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank
 SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-8	1803552-02	Water	02/01/18
2	MW-13	1803552-03	Water	02/01/18
3	MW-16	1803552-04	Water	02/01/18
4	MW-7	1803552-05	Water	02/01/18
5	EB-8-020118	1803552-06	Water	02/01/18
6	MW-6	1803552-07	Water	02/01/18
7	MW-10	1803552-08	Water	02/01/18
8	MW-5	1803552-09	Water	02/01/18
9	MW-15	1803552-10	Water	02/01/18
10	DUP-6-1Q18	1803552-11	Water	02/01/18
11	DUP-7-1Q18	1803552-12	Water	02/01/18
12	MW-8MS	1803552-02MS	Water	02/01/18
13	MW-8MSD	1803552-02MSD	Water	02/01/18
14	MW-8DUP	1803552-02DUP	Water	02/01/18
15	DUP-7-1Q18MS	1803552-12MS	Water	02/01/18

LDC #: 41461C4a
SDG #: 18-03552
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 03/12/18
Page: 2 of 2
Reviewer: 
2nd Reviewer: 

METHOD: Chromium (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16	DUP-7-1Q18MSD	1803552-12MSD	Water	02/01/18
17	DUP-7-1Q18DUP	1803552-12DUP	Water	02/01/18
18				
19				
20				
21				
22				

Notes: _____

LDC#: 41461C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6010B/6020/7000/200.8)

Analyte	Concentration (ug/L)		RPD	
	6	10		
Chromium	90	32	95	

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Analyte	Concentration (ug/L)		RPD	
	9	11		
Chromium	6.8	5.0	31	

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 1Q2018

LDC Report Date: March 14, 2018

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 18-03552

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-8	1803552-02	Water	02/01/18
MW-13	1803552-03	Water	02/01/18
MW-16	1803552-04	Water	02/01/18
MW-7	1803552-05	Water	02/01/18
EB-8-020118	1803552-06	Water	02/01/18
MW-6	1803552-07	Water	02/01/18
MW-10	1803552-08	Water	02/01/18
MW-5	1803552-09	Water	02/01/18
MW-15	1803552-10	Water	02/01/18
DUP-6-1Q18	1803552-11	Water	02/01/18
DUP-7-1Q18	1803552-12	Water	02/01/18
MW-8MS	1803552-02MS	Water	02/01/18
MW-8MSD	1803552-02MSD	Water	02/01/18
MW-8DUP	1803552-02DUP	Water	02/01/18
DUP-6-1Q18MS	1803552-11MS	Water	02/01/18
DUP-6-1Q18MSD	1803552-11MSD	Water	02/01/18
DUP-6-1Q18DUP	1803552-11DUP	Water	02/01/18

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Chloride, Nitrate as Nitrogen, and Sulfate by Environmental Protection Agency (EPA) Method 300.0

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA SW 846 Method 7196

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EB-8-020118 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-6 and DUP-6-1Q18 and samples MW-15 and DUP-7-1Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	MW-6	DUP-6-1Q18	
Perchlorate	3.9	3.6	8
Hexavalent chromium	0.0015	0.0017	12

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NASA JPL, 1Q2018
Wet Chemistry - Data Qualification Summary - SDG 18-03552

No Sample Data Qualified in this SDG

NASA JPL, 1Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-03552

No Sample Data Qualified in this SDG

VALIDATION COMPLETENESS WORKSHEET
 Level III

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	5=EB
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12,13), (15,16)
VII.	Duplicate sample analysis	SW A	14,17
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(6,10), (9,11)
X.	Sample result verification	N	
XI	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	MW-8	1803552-02	Water	02/01/18
2	MW-13	1803552-03	Water	02/01/18
3	MW-16	1803552-04	Water	02/01/18
4	MW-7	1803552-05	Water	02/01/18
5	EB-8-020118	1803552-06	Water	02/01/18
6	MW-6	1803552-07	Water	02/01/18
7	MW-10	1803552-08	Water	02/01/18
8	MW-5	1803552-09	Water	02/01/18
9	MW-15	1803552-10	Water	02/01/18
10	DUP-6-1Q18	1803552-11	Water	02/01/18
11	DUP-7-1Q18	1803552-12	Water	02/01/18
12	MW-8MS	1803552-02MS	Water	02/01/18
13	MW-8MSD	1803552-02MSD	Water	02/01/18
14	MW-8DUP	1803552-02DUP	Water	02/01/18
15	DUP-6-1Q18MS	1803552-11MS	Water	02/01/18
16	DUP-6-1Q18MSD	1803552-11MSD	Water	02/01/18
17	DUP-6-1Q18DUP	1803552-11DUP	Water	02/01/18

LDC# 41461C6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: [Signature]

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	6	10		
Perchlorate	3.9	3.6	8	
Hexavalent Chromium	0.0015	0.0017	12	

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SDG 18-03235 - NASA JPL, 1Q2018

SDG: 18-03235

Analytical Method EPA-200.8

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	Total Recoverable Chromium	2/3/2018	1.1	Y	y	vj	U	3.0	0.50	ug/L
MW-12-2	1803235-08	Total Recoverable Chromium	2/3/2018	1.1	Y	y	vj	U	3.0	0.50	ug/L
MW-12-3	1803235-07	Total Recoverable Chromium	2/2/2018	0.89	Y	y	vj	U	3.0	0.50	ug/L
MW-4-1	1803235-04	Total Recoverable Chromium	2/2/2018	0.61	Y	y	vj	U	3.0	0.50	ug/L
MW-4-2	1803235-03	Total Recoverable Chromium	2/2/2018	1.5	Y	y	vj	U	3.0	0.50	ug/L
MW-4-3	1803235-02	Total Recoverable Chromium	2/2/2018	1.5	Y	y	vj	U	3.0	0.50	ug/L

Analytical Method EPA-314.0

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	Perchlorate	2/22/2018	4	Y	n	u		4.0	0.58	ug/L
MW-12-2	1803235-08	Perchlorate	2/22/2018	4	Y	n	u		4.0	0.58	ug/L
MW-12-3	1803235-07	Perchlorate	2/22/2018	0.71	Y	y	vj		4.0	0.58	ug/L
MW-12-4	1803235-06	Perchlorate	2/21/2018	2.6	Y	y	vj	U	4.0	0.58	ug/L
MW-12-5	1803235-05	Perchlorate	2/21/2018	2.6	Y	y	vj	U	4.0	0.58	ug/L
MW-4-1	1803235-04	Perchlorate	2/21/2018	4	Y	n	u		4.0	0.58	ug/L
MW-4-2	1803235-03	Perchlorate	2/21/2018	1.1	Y	y	vj	U	4.0	0.58	ug/L
MW-4-3	1803235-02	Perchlorate	2/21/2018	4	Y	n	u		4.0	0.58	ug/L

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-013018	1803235-09	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-6-013018	1803235-09	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-013018	1803235-09	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 18-03235

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-013018	1803235-09	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-013018	1803235-09	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-013018	1803235-09	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-013018	1803235-09	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-013018	1803235-09	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-013018	1803235-09	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-013018	1803235-09	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-013018	1803235-09	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
EB-6-013018	1803235-09	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-6-013018	1803235-09	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
EB-6-013018	1803235-09	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
EB-6-013018	1803235-09	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
EB-6-013018	1803235-09	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
EB-6-013018	1803235-09	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
EB-6-013018	1803235-09	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
EB-6-013018	1803235-09	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
EB-6-013018	1803235-09	Toluene-d8 (Surrogate)	2/3/2018	9.1	Y	y	v s				ug/L
EB-6-013018	1803235-09	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-013018	1803235-09	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
EB-6-013018	1803235-09	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
EB-6-013018	1803235-09	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-013018	1803235-09	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-6-013018	1803235-09	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
EB-6-013018	1803235-09	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.2	Y	y	vs				ug/L
EB-6-013018	1803235-09	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
EB-6-013018	1803235-09	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-013018	1803235-09	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-013018	1803235-09	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-013018	1803235-09	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-6-013018	1803235-09	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-013018	1803235-09	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-013018	1803235-09	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-6-013018	1803235-09	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
EB-6-013018	1803235-09	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
EB-6-013018	1803235-09	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
EB-6-013018	1803235-09	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-6-013018	1803235-09	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
EB-6-013018	1803235-09	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
EB-6-013018	1803235-09	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
EB-6-013018	1803235-09	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-013018	1803235-09	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-6-013018	1803235-09	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-6-013018	1803235-09	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-013018	1803235-09	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-013018	1803235-09	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-013018	1803235-09	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-013018	1803235-09	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
EB-6-013018	1803235-09	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-013018	1803235-09	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-013018	1803235-09	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-013018	1803235-09	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-013018	1803235-09	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-013018	1803235-09	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-013018	1803235-09	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-013018	1803235-09	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-013018	1803235-09	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-013018	1803235-09	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-013018	1803235-09	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-013018	1803235-09	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-013018	1803235-09	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-6-013018	1803235-09	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-013018	1803235-09	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-6-013018	1803235-09	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-2	1803235-08	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-2	1803235-08	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-2	1803235-08	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1803235-08	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-2	1803235-08	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-2	1803235-08	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-2	1803235-08	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1803235-08	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1803235-08	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1803235-08	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-2	1803235-08	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1803235-08	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-2	1803235-08	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1803235-08	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1803235-08	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1803235-08	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-2	1803235-08	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-2	1803235-08	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1803235-08	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1803235-08	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1803235-08	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1803235-08	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1803235-08	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1803235-08	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1803235-08	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-2	1803235-08	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1803235-08	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-2	1803235-08	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1803235-08	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1803235-08	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1803235-08	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-12-2	1803235-08	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-2	1803235-08	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-2	1803235-08	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-2	1803235-08	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1803235-08	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1803235-08	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-2	1803235-08	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-2	1803235-08	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-2	1803235-08	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-2	1803235-08	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1803235-08	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1803235-08	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-2	1803235-08	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-2	1803235-08	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1803235-08	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-12-2	1803235-08	Toluene-d8 (Surrogate)	2/3/2018	9.7	Y	y	v s				ug/L
MW-12-2	1803235-08	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-12-2	1803235-08	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-12-2	1803235-08	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-12-2	1803235-08	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-12-2	1803235-08	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-12-2	1803235-08	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-12-2	1803235-08	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-12-2	1803235-08	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-2	1803235-08	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1803235-08	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-2	1803235-08	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1803235-08	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-2	1803235-08	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1803235-08	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1803235-08	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1803235-08	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-2	1803235-08	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1803235-08	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1803235-08	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-2	1803235-08	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1803235-08	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1803235-08	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1803235-08	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1803235-08	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1803235-08	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1803235-08	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1803235-08	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1803235-07	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1803235-07	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1803235-07	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-3	1803235-07	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1803235-07	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-3	1803235-07	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1803235-07	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1803235-07	Chloroform	2/3/2018	1.4	Y	y	v		0.50	0.14	ug/L
MW-12-3	1803235-07	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1803235-07	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1803235-07	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1803235-07	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1803235-07	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-3	1803235-07	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1803235-07	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1803235-07	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1803235-07	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1803235-07	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-3	1803235-07	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	vs				ug/L
MW-12-3	1803235-07	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-12-3	1803235-07	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1803235-07	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-3	1803235-07	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-3	1803235-07	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-12-3	1803235-07	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-3	1803235-07	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-3	1803235-07	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-3	1803235-07	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-3	1803235-07	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-3	1803235-07	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-3	1803235-07	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1803235-07	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	vs				ug/L
MW-12-3	1803235-07	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-3	1803235-07	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1803235-07	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-3	1803235-07	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1803235-07	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-3	1803235-07	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1803235-07	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-3	1803235-07	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-3	1803235-07	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1803235-07	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-3	1803235-07	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-3	1803235-07	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-3	1803235-07	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-3	1803235-07	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1803235-07	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1803235-07	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1803235-07	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1803235-07	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1803235-07	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1803235-07	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1803235-07	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1803235-07	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-12-3	1803235-07	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1803235-07	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1803235-07	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1803235-07	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-3	1803235-07	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-12-3	1803235-07	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1803235-07	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1803235-07	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1803235-07	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1803235-07	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-12-3	1803235-07	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-12-3	1803235-07	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1803235-07	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-12-3	1803235-07	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1803235-07	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1803235-07	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1803235-06	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-4	1803235-06	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1803235-06	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-4	1803235-06	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1803235-06	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1803235-06	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1803235-06	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1803235-06	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-4	1803235-06	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1803235-06	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1803235-06	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1803235-06	Chloroform	2/3/2018	0.44	Y	y	vj		0.50	0.14	ug/L
MW-12-4	1803235-06	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1803235-06	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	Carbon tetrachloride	2/3/2018	0.38	Y	y	vj		0.50	0.17	ug/L
MW-12-4	1803235-06	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1803235-06	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-4	1803235-06	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1803235-06	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1803235-06	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1803235-06	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1803235-06	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1803235-06	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-4	1803235-06	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-4	1803235-06	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1803235-06	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-4	1803235-06	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-4	1803235-06	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-4	1803235-06	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-4	1803235-06	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-4	1803235-06	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-4	1803235-06	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1803235-06	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-4	1803235-06	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-4	1803235-06	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-4	1803235-06	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-4	1803235-06	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-4	1803235-06	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	vs				ug/L
MW-12-4	1803235-06	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-12-4	1803235-06	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-12-4	1803235-06	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-12-4	1803235-06	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-12-4	1803235-06	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-12-4	1803235-06	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-4	1803235-06	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.8	Y	y	vs				ug/L
MW-12-4	1803235-06	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-4	1803235-06	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-12-4	1803235-06	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1803235-06	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-4	1803235-06	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-4	1803235-06	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-12-4	1803235-06	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-4	1803235-06	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-12-4	1803235-06	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-12-4	1803235-06	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-4	1803235-06	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1803235-06	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1803235-06	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1803235-06	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1803235-06	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1803235-06	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1803235-06	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1803235-06	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1803235-06	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1803235-06	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1803235-06	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1803235-06	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1803235-06	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1803235-06	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1803235-06	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1803235-06	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-4	1803235-06	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1803235-06	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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MW-12-4	1803235-06	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1803235-06	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1803235-06	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1803235-06	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1803235-06	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-5	1803235-05	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1803235-05	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1803235-05	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1803235-05	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1803235-05	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1803235-05	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1803235-05	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1803235-05	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1803235-05	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1803235-05	Chloroform	2/3/2018	0.28	Y	y	v j		0.50	0.14	ug/L
MW-12-5	1803235-05	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1803235-05	Carbon tetrachloride	2/3/2018	0.28	Y	y	v j		0.50	0.17	ug/L
MW-12-5	1803235-05	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1803235-05	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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MW-12-5	1803235-05	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-5	1803235-05	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1803235-05	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1803235-05	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1803235-05	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-5	1803235-05	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1803235-05	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-5	1803235-05	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-5	1803235-05	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-5	1803235-05	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-5	1803235-05	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-5	1803235-05	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-5	1803235-05	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-5	1803235-05	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-5	1803235-05	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-5	1803235-05	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-5	1803235-05	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-5	1803235-05	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-5	1803235-05	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-5	1803235-05	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1803235-05	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-5	1803235-05	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1803235-05	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-12-5	1803235-05	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L

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MW-12-5	1803235-05	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1803235-05	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-12-5	1803235-05	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1803235-05	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-5	1803235-05	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-12-5	1803235-05	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-5	1803235-05	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-12-5	1803235-05	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-12-5	1803235-05	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-12-5	1803235-05	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-12-5	1803235-05	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-5	1803235-05	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-12-5	1803235-05	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-12-5	1803235-05	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1803235-05	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1803235-05	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1803235-05	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1803235-05	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1803235-05	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1803235-05	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1803235-05	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1803235-05	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-12-5	1803235-05	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1803235-05	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1803235-05	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-12-5	1803235-05	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1803235-05	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1803235-05	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1803235-05	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1803235-05	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1803235-05	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-5	1803235-05	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1803235-05	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1803235-05	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1803235-05	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1803235-05	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1803235-05	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1803235-05	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1803235-05	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1803235-05	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1803235-04	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-1	1803235-04	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-1	1803235-04	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1803235-04	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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MW-4-1	1803235-04	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1803235-04	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1803235-04	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1803235-04	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1803235-04	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1803235-04	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1803235-04	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1803235-04	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-1	1803235-04	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-4-1	1803235-04	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1803235-04	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-1	1803235-04	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1803235-04	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-4-1	1803235-04	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-4-1	1803235-04	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-1	1803235-04	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1803235-04	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-4-1	1803235-04	Toluene-d8 (Surrogate)	2/3/2018	9.8	Y	y	v s				ug/L
MW-4-1	1803235-04	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1803235-04	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L

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MW-4-1	1803235-04	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1803235-04	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-4-1	1803235-04	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-4-1	1803235-04	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-4-1	1803235-04	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-4-1	1803235-04	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-1	1803235-04	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-1	1803235-04	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-4-1	1803235-04	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-4-1	1803235-04	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-4-1	1803235-04	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.8	Y	y	v s				ug/L
MW-4-1	1803235-04	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1803235-04	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-1	1803235-04	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-1	1803235-04	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1803235-04	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1803235-04	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1803235-04	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-4-1	1803235-04	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1803235-04	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-1	1803235-04	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-4-1	1803235-04	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-1	1803235-04	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1803235-04	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1803235-04	Acetone	2/3/2018	14	Y	y	v		10	6.6	ug/L
MW-4-1	1803235-04	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-1	1803235-04	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-1	1803235-04	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1803235-04	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1803235-04	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1803235-04	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1803235-04	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1803235-04	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1803235-04	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1803235-04	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1803235-04	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-1	1803235-04	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1803235-04	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-1	1803235-04	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

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MW-4-1	1803235-04	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1803235-04	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1803235-04	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1803235-04	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-4-1	1803235-04	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1803235-04	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1803235-04	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1803235-04	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1803235-03	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-2	1803235-03	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1803235-03	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1803235-03	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1803235-03	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-2	1803235-03	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1803235-03	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-2	1803235-03	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-2	1803235-03	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-2	1803235-03	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-2	1803235-03	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-2	1803235-03	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1803235-03	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-2	1803235-03	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1803235-03	Acetone	2/3/2018	14	Y	y	v		10	6.6	ug/L
MW-4-2	1803235-03	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-4-2	1803235-03	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-2	1803235-03	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-2	1803235-03	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1803235-03	Trichloroethene	2/3/2018	0.26	Y	y	v j		0.50	0.19	ug/L
MW-4-2	1803235-03	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1803235-03	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1803235-03	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-2	1803235-03	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-2	1803235-03	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-4-2	1803235-03	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-4-2	1803235-03	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-4-2	1803235-03	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-4-2	1803235-03	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-4-2	1803235-03	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-4-2	1803235-03	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.5	Y	y	v s				ug/L
MW-4-2	1803235-03	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
MW-4-2	1803235-03	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-2	1803235-03	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-2	1803235-03	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-4-2	1803235-03	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-4-2	1803235-03	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-2	1803235-03	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-2	1803235-03	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-4-2	1803235-03	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-2	1803235-03	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-4-2	1803235-03	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-4-2	1803235-03	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-4-2	1803235-03	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1803235-03	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1803235-03	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1803235-03	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1803235-03	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1803235-03	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1803235-03	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1803235-03	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1803235-03	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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MW-4-2	1803235-03	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1803235-03	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1803235-03	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1803235-03	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1803235-03	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1803235-03	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1803235-03	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1803235-03	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1803235-03	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1803235-03	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1803235-03	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1803235-03	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1803235-03	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1803235-03	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1803235-03	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1803235-03	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1803235-03	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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MW-4-3	1803235-02	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1803235-02	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1803235-02	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1803235-02	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-3	1803235-02	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1803235-02	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1803235-02	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1803235-02	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1803235-02	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-3	1803235-02	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-3	1803235-02	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1803235-02	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-4-3	1803235-02	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1803235-02	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-3	1803235-02	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-3	1803235-02	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-4-3	1803235-02	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1803235-02	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1803235-02	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-3	1803235-02	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-3	1803235-02	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1803235-02	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1803235-02	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1803235-02	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1803235-02	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-4-3	1803235-02	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1803235-02	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-4-3	1803235-02	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-4-3	1803235-02	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-4-3	1803235-02	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-4-3	1803235-02	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.7	Y	y	v s				ug/L
MW-4-3	1803235-02	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-4-3	1803235-02	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-4-3	1803235-02	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-3	1803235-02	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-3	1803235-02	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-3	1803235-02	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-4-3	1803235-02	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-3	1803235-02	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-3	1803235-02	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-4-3	1803235-02	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-3	1803235-02	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-4-3	1803235-02	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-4-3	1803235-02	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-4-3	1803235-02	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-4-3	1803235-02	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1803235-02	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1803235-02	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1803235-02	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1803235-02	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1803235-02	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1803235-02	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-3	1803235-02	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-3	1803235-02	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1803235-02	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1803235-02	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-4-3	1803235-02	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1803235-02	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1803235-02	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-3	1803235-02	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1803235-02	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1803235-02	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1803235-02	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1803235-02	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1803235-02	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1803235-02	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1803235-02	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1803235-02	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1803235-02	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1803235-02	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-013018	1803235-01	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-013018	1803235-01	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
TB-6-013018	1803235-01	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-013018	1803235-01	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
TB-6-013018	1803235-01	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
TB-6-013018	1803235-01	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
TB-6-013018	1803235-01	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-013018	1803235-01	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-013018	1803235-01	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-6-013018	1803235-01	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-013018	1803235-01	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-013018	1803235-01	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-013018	1803235-01	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
TB-6-013018	1803235-01	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-013018	1803235-01	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-6-013018	1803235-01	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-013018	1803235-01	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
TB-6-013018	1803235-01	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-013018	1803235-01	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-013018	1803235-01	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-013018	1803235-01	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
TB-6-013018	1803235-01	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
TB-6-013018	1803235-01	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
TB-6-013018	1803235-01	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
TB-6-013018	1803235-01	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
TB-6-013018	1803235-01	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	vs				ug/L
TB-6-013018	1803235-01	Toluene-d8 (Surrogate)	2/3/2018	9.7	Y	y	vs				ug/L
TB-6-013018	1803235-01	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
TB-6-013018	1803235-01	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-013018	1803235-01	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-6-013018	1803235-01	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-6-013018	1803235-01	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
TB-6-013018	1803235-01	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u		5.0	1.8	ug/L
TB-6-013018	1803235-01	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-013018	1803235-01	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-6-013018	1803235-01	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
TB-6-013018	1803235-01	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
TB-6-013018	1803235-01	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
TB-6-013018	1803235-01	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
TB-6-013018	1803235-01	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-013018	1803235-01	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-6-013018	1803235-01	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
TB-6-013018	1803235-01	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
TB-6-013018	1803235-01	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
TB-6-013018	1803235-01	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-013018	1803235-01	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
TB-6-013018	1803235-01	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-013018	1803235-01	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-6-013018	1803235-01	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-013018	1803235-01	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-013018	1803235-01	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-013018	1803235-01	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-013018	1803235-01	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
TB-6-013018	1803235-01	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

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TB-6-013018	1803235-01	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-013018	1803235-01	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-013018	1803235-01	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-6-013018	1803235-01	Bromomethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-013018	1803235-01	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-013018	1803235-01	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-013018	1803235-01	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-013018	1803235-01	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-013018	1803235-01	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-013018	1803235-01	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-013018	1803235-01	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-013018	1803235-01	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-013018	1803235-01	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-013018	1803235-01	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-013018	1803235-01	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-013018	1803235-01	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-013018	1803235-01	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-6-013018	1803235-01	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-013018	1803235-01	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-013018	1803235-01	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-013018	1803235-01	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-013018	1803235-09	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-12-2	1803235-08	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-12-3	1803235-07	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-1	1803235-04	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-2	1803235-03	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-3	1803235-02	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

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Analytical Method											
EPA-200.8											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	Total Recoverable Chromium	2/5/2018	0.89	Y	y	vj	U	3.0	0.50	ug/L
MW-11-1	1803365-10	Total Recoverable Chromium	2/5/2018	0.86	Y	y	vj	U	3.0	0.50	ug/L
MW-11-2	1803365-09	Total Recoverable Chromium	2/5/2018	0.82	Y	y	vj	U	3.0	0.50	ug/L
MW-11-3	1803365-08	Total Recoverable Chromium	2/5/2018	1.1	Y	y	vj	U	3.0	0.50	ug/L
MW-23-1	1803365-06	Total Recoverable Chromium	2/5/2018	1.5	Y	y	vj	U	3.0	0.50	ug/L
MW-23-2	1803365-05	Total Recoverable Chromium	2/5/2018	1.8	Y	y	vj	U	3.0	0.50	ug/L
MW-23-3	1803365-04	Total Recoverable Chromium	2/5/2018	3.4	Y	y	v		3.0	0.50	ug/L
MW-23-4	1803365-02	Total Recoverable Chromium	2/5/2018	3.1	Y	y	v		3.0	0.50	ug/L
Analytical Method											
EPA-300.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	Sulfate	2/1/2018	41	Y	y	v		1.0	0.13	mg/L
MW-11-1	1803365-10	Chloride	2/1/2018	25	Y	y	v		0.50	0.077	mg/L
MW-11-1	1803365-10	Nitrate as N	2/1/2018	0.23	Y	y	v		0.10	0.021	mg/L
Analytical Method											
EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	Perchlorate	2/22/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-1	1803365-10	Perchlorate	2/22/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-2	1803365-09	Perchlorate	2/22/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-3	1803365-08	Perchlorate	2/22/2018	1.5	Y	y	vj		4.0	0.58	ug/L
MW-11-4	1803365-07	Perchlorate	2/22/2018	4	Y	n	u		4.0	0.58	ug/L
MW-23-1	1803365-06	Perchlorate	2/22/2018	4.3	Y	y	v		4.0	0.58	ug/L
MW-23-2	1803365-05	Perchlorate	2/22/2018	5.1	Y	y	v		4.0	0.58	ug/L
MW-23-3	1803365-04	Perchlorate	2/22/2018	3.2	Y	y	vj		4.0	0.58	ug/L

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Analytical Method EPA-353.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	Nitrite as N	2/1/2018	0.05	Y	n	u		0.050	0.010	mg/L
Analytical Method EPA-365.1											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	ortho-Phosphate as P	2/1/2018	0.023	Y	y	v j		0.050	0.017	mg/L
Analytical Method EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-013118	1803365-11	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-7-013118	1803365-11	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-013118	1803365-11	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-7-013118	1803365-11	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-013118	1803365-11	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-7-013118	1803365-11	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-013118	1803365-11	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-7-013118	1803365-11	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-013118	1803365-11	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-013118	1803365-11	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-013118	1803365-11	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
EB-7-013118	1803365-11	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-7-013118	1803365-11	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-013118	1803365-11	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
EB-7-013118	1803365-11	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
EB-7-013118	1803365-11	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
EB-7-013118	1803365-11	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-7-013118	1803365-11	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-013118	1803365-11	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-013118	1803365-11	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-013118	1803365-11	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-013118	1803365-11	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
EB-7-013118	1803365-11	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-013118	1803365-11	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-7-013118	1803365-11	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-013118	1803365-11	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-013118	1803365-11	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-013118	1803365-11	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-7-013118	1803365-11	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-013118	1803365-11	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
EB-7-013118	1803365-11	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
EB-7-013118	1803365-11	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-7-013118	1803365-11	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
EB-7-013118	1803365-11	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-7-013118	1803365-11	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
EB-7-013118	1803365-11	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
EB-7-013118	1803365-11	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-7-013118	1803365-11	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-013118	1803365-11	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	v s				ug/L
EB-7-013118	1803365-11	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
EB-7-013118	1803365-11	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.9	Y	y	v s				ug/L
EB-7-013118	1803365-11	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
EB-7-013118	1803365-11	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
EB-7-013118	1803365-11	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
EB-7-013118	1803365-11	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
EB-7-013118	1803365-11	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
EB-7-013118	1803365-11	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
EB-7-013118	1803365-11	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
EB-7-013118	1803365-11	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-013118	1803365-11	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-7-013118	1803365-11	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-013118	1803365-11	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-013118	1803365-11	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-013118	1803365-11	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-013118	1803365-11	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-013118	1803365-11	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-013118	1803365-11	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-013118	1803365-11	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-013118	1803365-11	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-013118	1803365-11	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-013118	1803365-11	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-013118	1803365-11	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-013118	1803365-11	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-013118	1803365-11	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-013118	1803365-11	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-013118	1803365-11	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-013118	1803365-11	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1803365-10	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-1	1803365-10	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1803365-10	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1803365-10	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1803365-10	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1803365-10	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1803365-10	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1803365-10	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1803365-10	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1803365-10	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1803365-10	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1803365-10	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-1	1803365-10	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1803365-10	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1803365-10	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-1	1803365-10	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-1	1803365-10	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1803365-10	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1803365-10	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-1	1803365-10	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1803365-10	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1803365-10	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1803365-10	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1803365-10	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-1	1803365-10	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-1	1803365-10	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-11-1	1803365-10	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-1	1803365-10	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-1	1803365-10	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-1	1803365-10	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1803365-10	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-1	1803365-10	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-1	1803365-10	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-1	1803365-10	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-1	1803365-10	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-1	1803365-10	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1803365-10	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-1	1803365-10	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-1	1803365-10	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-1	1803365-10	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1803365-10	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	v s				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-11-1	1803365-10	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-11-1	1803365-10	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-11-1	1803365-10	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-11-1	1803365-10	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-11-1	1803365-10	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-11-1	1803365-10	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-11-1	1803365-10	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-11-1	1803365-10	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-1	1803365-10	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-1	1803365-10	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-1	1803365-10	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1803365-10	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1803365-10	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1803365-10	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1803365-10	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-1	1803365-10	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-1	1803365-10	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1803365-10	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1803365-10	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1803365-10	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1803365-10	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-1	1803365-10	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1803365-10	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1803365-10	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1803365-10	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1803365-10	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1803365-10	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1803365-10	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1803365-10	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1803365-10	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1803365-10	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1803365-09	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1803365-09	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1803365-09	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1803365-09	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1803365-09	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1803365-09	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1803365-09	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1803365-09	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1803365-09	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-2	1803365-09	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1803365-09	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1803365-09	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1803365-09	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1803365-09	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-2	1803365-09	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-2	1803365-09	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1803365-09	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1803365-09	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1803365-09	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1803365-09	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-2	1803365-09	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	v s				ug/L
MW-11-2	1803365-09	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-2	1803365-09	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1803365-09	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-11-2	1803365-09	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-2	1803365-09	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-2	1803365-09	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-11-2	1803365-09	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-11-2	1803365-09	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-11-2	1803365-09	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-11-2	1803365-09	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1803365-09	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1803365-09	Toluene-d8 (Surrogate)	2/3/2018	9.7	Y	y	v s				ug/L
MW-11-2	1803365-09	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-2	1803365-09	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1803365-09	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-2	1803365-09	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-2	1803365-09	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-2	1803365-09	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-2	1803365-09	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-2	1803365-09	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-2	1803365-09	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-2	1803365-09	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-2	1803365-09	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-2	1803365-09	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-2	1803365-09	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.6	Y	y	v s				ug/L
MW-11-2	1803365-09	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1803365-09	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1803365-09	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1803365-09	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1803365-09	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1803365-09	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1803365-09	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1803365-09	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1803365-09	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-2	1803365-09	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1803365-09	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1803365-09	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-2	1803365-09	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-2	1803365-09	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-2	1803365-09	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-11-2	1803365-09	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-11-2	1803365-09	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1803365-09	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1803365-09	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1803365-09	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1803365-09	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1803365-09	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1803365-09	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1803365-08	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1803365-08	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1803365-08	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1803365-08	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1803365-08	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1803365-08	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1803365-08	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1803365-08	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-3	1803365-08	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-3	1803365-08	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1803365-08	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1803365-08	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1803365-08	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-3	1803365-08	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1803365-08	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-3	1803365-08	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1803365-08	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-3	1803365-08	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-3	1803365-08	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1803365-08	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-3	1803365-08	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-11-3	1803365-08	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-3	1803365-08	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-3	1803365-08	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-3	1803365-08	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1803365-08	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-3	1803365-08	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-3	1803365-08	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-3	1803365-08	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-3	1803365-08	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-3	1803365-08	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-3	1803365-08	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-3	1803365-08	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-3	1803365-08	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-11-3	1803365-08	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-3	1803365-08	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1803365-08	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-11-3	1803365-08	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	vs				ug/L
MW-11-3	1803365-08	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	vs				ug/L
MW-11-3	1803365-08	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1803365-08	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-11-3	1803365-08	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1803365-08	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-11-3	1803365-08	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-11-3	1803365-08	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-11-3	1803365-08	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-3	1803365-08	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1803365-08	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-3	1803365-08	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1803365-08	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-3	1803365-08	Styrene	2/3/2018	0.15	Y	y	vj		0.50	0.12	ug/L
MW-11-3	1803365-08	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-11-3	1803365-08	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-3	1803365-08	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1803365-08	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1803365-08	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1803365-08	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-3	1803365-08	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-3	1803365-08	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1803365-08	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1803365-08	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-3	1803365-08	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1803365-08	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1803365-08	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-3	1803365-08	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1803365-08	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1803365-08	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1803365-08	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1803365-07	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1803365-07	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1803365-07	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1803365-07	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-4	1803365-07	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1803365-07	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1803365-07	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1803365-07	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1803365-07	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-4	1803365-07	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1803365-07	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1803365-07	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1803365-07	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1803365-07	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-4	1803365-07	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-4	1803365-07	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1803365-07	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1803365-07	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1803365-07	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-4	1803365-07	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-4	1803365-07	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1803365-07	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-4	1803365-07	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1803365-07	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1803365-07	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1803365-07	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1803365-07	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1803365-07	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-11-4	1803365-07	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-4	1803365-07	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-4	1803365-07	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-4	1803365-07	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-4	1803365-07	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-4	1803365-07	Styrene	2/3/2018	0.16	Y	y	v j		0.50	0.12	ug/L
MW-11-4	1803365-07	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-4	1803365-07	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-4	1803365-07	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1803365-07	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-4	1803365-07	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1803365-07	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L

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MW-11-4	1803365-07	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-11-4	1803365-07	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-11-4	1803365-07	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-11-4	1803365-07	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-11-4	1803365-07	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.4	Y	y	vs				ug/L
MW-11-4	1803365-07	Toluene-d8 (Surrogate)	2/3/2018	9.9	Y	y	vs				ug/L
MW-11-4	1803365-07	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	vs				ug/L
MW-11-4	1803365-07	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-4	1803365-07	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-4	1803365-07	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1803365-07	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1803365-07	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-4	1803365-07	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1803365-07	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1803365-07	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1803365-07	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1803365-07	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1803365-07	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1803365-07	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-4	1803365-07	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1803365-07	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-4	1803365-07	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-11-4	1803365-07	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-4	1803365-07	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-4	1803365-07	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1803365-07	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-4	1803365-07	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-4	1803365-07	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-4	1803365-07	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1803365-07	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-1	1803365-06	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-1	1803365-06	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-1	1803365-06	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1803365-06	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-1	1803365-06	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-23-1	1803365-06	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-23-1	1803365-06	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-23-1	1803365-06	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-1	1803365-06	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-23-1	1803365-06	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-1	1803365-06	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-1	1803365-06	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1803365-06	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1803365-06	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1803365-06	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1803365-06	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1803365-06	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-1	1803365-06	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1803365-06	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1803365-06	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1803365-06	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-23-1	1803365-06	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-1	1803365-06	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1803365-06	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1803365-06	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1803365-06	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-23-1	1803365-06	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-1	1803365-06	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-1	1803365-06	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1803365-06	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-23-1	1803365-06	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-1	1803365-06	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-23-1	1803365-06	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-1	1803365-06	Trichloroethene	2/3/2018	1.5	Y	y	v		0.50	0.19	ug/L
MW-23-1	1803365-06	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1803365-06	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-1	1803365-06	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1803365-06	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-1	1803365-06	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1803365-06	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L

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MW-23-1	1803365-06	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1803365-06	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1803365-06	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1803365-06	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1803365-06	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1803365-06	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1803365-06	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1803365-06	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1803365-06	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1803365-06	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1803365-06	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1803365-06	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1803365-06	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1803365-06	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	vs				ug/L
MW-23-1	1803365-06	Toluene-d8 (Surrogate)	2/3/2018	9.6	Y	y	vs				ug/L

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MW-23-1	1803365-06	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-23-1	1803365-06	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-23-1	1803365-06	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-23-1	1803365-06	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-23-1	1803365-06	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1803365-06	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-1	1803365-06	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1803365-06	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-23-1	1803365-06	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1803365-06	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1803365-06	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1803365-06	Chloroform	2/3/2018	0.37	Y	y	v j		0.50	0.14	ug/L
MW-23-1	1803365-06	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-23-1	1803365-06	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1803365-06	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1803365-06	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1803365-06	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1803365-06	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1803365-06	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-1	1803365-06	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-1	1803365-06	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1803365-05	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-2	1803365-05	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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MW-23-2	1803365-05	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-2	1803365-05	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1803365-05	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1803365-05	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1803365-05	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-23-2	1803365-05	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-2	1803365-05	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-2	1803365-05	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-2	1803365-05	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-23-2	1803365-05	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-2	1803365-05	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-23-2	1803365-05	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1803365-05	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1803365-05	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-2	1803365-05	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-23-2	1803365-05	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1803365-05	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1803365-05	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-2	1803365-05	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1803365-05	Trichloroethene	2/3/2018	1.3	Y	y	v		0.50	0.19	ug/L
MW-23-2	1803365-05	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1803365-05	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-2	1803365-05	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-2	1803365-05	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-23-2	1803365-05	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
MW-23-2	1803365-05	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-23-2	1803365-05	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-23-2	1803365-05	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-23-2	1803365-05	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-23-2	1803365-05	4-Bromofluorobenzene (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-23-2	1803365-05	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-23-2	1803365-05	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1803365-05	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1803365-05	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-2	1803365-05	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-23-2	1803365-05	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-23-2	1803365-05	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-2	1803365-05	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-2	1803365-05	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-23-2	1803365-05	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-2	1803365-05	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-23-2	1803365-05	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1803365-05	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	11	Y	y	v s				ug/L
MW-23-2	1803365-05	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1803365-05	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1803365-05	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1803365-05	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1803365-05	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1803365-05	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-2	1803365-05	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-2	1803365-05	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1803365-05	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-2	1803365-05	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1803365-05	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1803365-05	Chloroform	2/3/2018	0.39	Y	y	v j		0.50	0.14	ug/L
MW-23-2	1803365-05	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1803365-05	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1803365-05	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1803365-05	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	Tetrachloroethene	2/3/2018	0.33	Y	y	v j		0.50	0.23	ug/L
MW-23-2	1803365-05	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1803365-05	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1803365-05	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1803365-05	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1803365-05	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1803365-05	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1803365-05	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1803365-05	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1803365-05	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1803365-05	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1803365-05	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1803365-05	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1803365-05	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1803365-05	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1803365-05	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1803365-04	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1803365-04	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-3	1803365-04	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1803365-04	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-3	1803365-04	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1803365-04	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1803365-04	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1803365-04	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1803365-04	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1803365-04	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-3	1803365-04	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1803365-04	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-3	1803365-04	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-3	1803365-04	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-3	1803365-04	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-23-3	1803365-04	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-3	1803365-04	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
MW-23-3	1803365-04	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
MW-23-3	1803365-04	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-3	1803365-04	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-3	1803365-04	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
MW-23-3	1803365-04	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1803365-04	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1803365-04	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1803365-04	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-3	1803365-04	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1803365-04	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1803365-04	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
MW-23-3	1803365-04	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1803365-04	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
MW-23-3	1803365-04	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1803365-04	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
MW-23-3	1803365-04	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
MW-23-3	1803365-04	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
MW-23-3	1803365-04	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1803365-04	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.6	Y	y	vs				ug/L
MW-23-3	1803365-04	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-3	1803365-04	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	vs				ug/L
MW-23-3	1803365-04	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1803365-04	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-3	1803365-04	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
MW-23-3	1803365-04	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
MW-23-3	1803365-04	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-3	1803365-04	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-3	1803365-04	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
MW-23-3	1803365-04	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
MW-23-3	1803365-04	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1803365-04	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1803365-04	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1803365-04	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1803365-04	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1803365-04	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1803365-04	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1803365-04	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1803365-04	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1803365-04	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1803365-04	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-3	1803365-04	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1803365-04	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1803365-04	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
MW-23-3	1803365-04	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-3	1803365-04	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1803365-04	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1803365-04	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1803365-04	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1803365-04	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1803365-04	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1803365-04	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1803365-04	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1803365-04	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1803365-04	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1803365-04	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1803365-04	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1803365-04	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1803365-04	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	Dichlorodifluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	1,1-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	1,4-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	1,2-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-013118	1803365-01	Dibromomethane	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-013118	1803365-01	1,2-Dibromoethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-013118	1803365-01	1,2-Dibromo-3-chloropropane	2/3/2018	1	Y	n	u		1.0	0.89	ug/L
TB-7-013118	1803365-01	Dibromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-013118	1803365-01	4-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-7-013118	1803365-01	1,3-Dichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-013118	1803365-01	1,2-Dichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-013118	1803365-01	1,1-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-013118	1803365-01	cis-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-013118	1803365-01	1,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	2,2-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-013118	1803365-01	Ethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	trans-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-013118	1803365-01	cis-1,3-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	2-Chlorotoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	1,1-Dichloropropene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-013118	1803365-01	Nitrobenzene	2/3/2018	0	Y	y	v				ug/L
TB-7-013118	1803365-01	1,3-Dichloropropane	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-013118	1803365-01	trans-1,2-Dichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-7-013118	1803365-01	Bromodichloromethane	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-013118	1803365-01	1,1-Dichloropropanone	2/3/2018	0	Y	y	v				ug/L
TB-7-013118	1803365-01	1-Chlorobutane	2/3/2018	0	Y	y	v				ug/L
TB-7-013118	1803365-01	Chloroacetonitrile	2/3/2018	0	Y	y	v				ug/L
TB-7-013118	1803365-01	4-Bromofluorobenzene (Surrogate)	2/3/2018	9.8	Y	y	v s				ug/L
TB-7-013118	1803365-01	Methyl isobutyl ketone	2/3/2018	10	Y	n	u		10	2.4	ug/L
TB-7-013118	1803365-01	Hexachlorobutadiene	2/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-013118	1803365-01	Methyl acrylate	2/3/2018	0	Y	y	v				ug/L
TB-7-013118	1803365-01	2-Nitropropane	2/3/2018	0	Y	y	v				ug/L
TB-7-013118	1803365-01	Benzene	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-013118	1803365-01	Toluene-d8 (Surrogate)	2/3/2018	10	Y	y	v s				ug/L
TB-7-013118	1803365-01	Bromochloromethane	2/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-013118	1803365-01	Chloromethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-013118	1803365-01	Bromoform	2/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-7-013118	1803365-01	Bromomethane	2/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-7-013118	1803365-01	n-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	sec-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-013118	1803365-01	tert-Butylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-013118	1803365-01	Carbon tetrachloride	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-013118	1803365-01	Chlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	Chloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-013118	1803365-01	Chloroform	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	Bromobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	2-Hexanone	2/3/2018	10	Y	n	u		10	5.0	ug/L
TB-7-013118	1803365-01	Acrylonitrile	2/3/2018	5	Y	n	u		5.0	1.5	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-7-013118	1803365-01	Allyl chloride	2/3/2018	5	Y	n	u		5.0	0.47	ug/L
TB-7-013118	1803365-01	Isopropylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	t-Butyl alcohol	2/3/2018	10	Y	n	u		10	9.4	ug/L
TB-7-013118	1803365-01	Methyl ethyl ketone	2/3/2018	10	Y	n	u		10	3.3	ug/L
TB-7-013118	1803365-01	trans-1,4-Dichloro-2-butene	2/3/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
TB-7-013118	1803365-01	Diethyl ether	2/3/2018	2	Y	n	u		2.0	0.33	ug/L
TB-7-013118	1803365-01	Ethyl methacrylate	2/3/2018	4	Y	n	u		4.0	1.3	ug/L
TB-7-013118	1803365-01	Acetone	2/3/2018	10	Y	n	u		10	6.6	ug/L
TB-7-013118	1803365-01	Hexachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-013118	1803365-01	t-Amyl Methyl ether	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-013118	1803365-01	Methacrylonitrile	2/3/2018	10	Y	n	u		10	2.3	ug/L
TB-7-013118	1803365-01	Methyl iodide	2/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-7-013118	1803365-01	Methyl methacrylate	2/3/2018	5	Y	n	u		5.0	1.2	ug/L
TB-7-013118	1803365-01	Pentachloroethane	2/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-7-013118	1803365-01	Propionitrile	2/3/2018	20	Y	n	u		20	6.2	ug/L
TB-7-013118	1803365-01	Tetrahydrofuran	2/3/2018	20	Y	n	u		20	5.2	ug/L
TB-7-013118	1803365-01	p- & m-Xylenes	2/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-7-013118	1803365-01	o-Xylene	2/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-013118	1803365-01	1,2-Dichloroethane-d4 (Surrogate)	2/3/2018	12	Y	y	v s				ug/L
TB-7-013118	1803365-01	Ethyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-7-013118	1803365-01	1,1,1,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-013118	1803365-01	p-Isopropyltoluene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	Methylene chloride	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-013118	1803365-01	Methyl t-butyl ether	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	Naphthalene	2/3/2018	0.5	Y	n	u		0.50	0.16	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-7-013118	1803365-01	Carbon disulfide	2/3/2018	1	Y	n	u		1.0	0.48	ug/L
TB-7-013118	1803365-01	Styrene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-013118	1803365-01	Vinyl chloride	2/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-013118	1803365-01	1,1,2,2-Tetrachloroethane	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-013118	1803365-01	Tetrachloroethene	2/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-013118	1803365-01	Toluene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-013118	1803365-01	1,2,3-Trichloropropane	2/3/2018	1	Y	n	u		1.0	0.78	ug/L
TB-7-013118	1803365-01	1,2,4-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-013118	1803365-01	1,1,1-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-013118	1803365-01	1,1,2-Trichloroethane	2/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-013118	1803365-01	Trichloroethene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-013118	1803365-01	Trichlorofluoromethane	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	1,3,5-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-013118	1803365-01	1,2,4-Trimethylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-013118	1803365-01	1,2,3-Trichlorobenzene	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-013118	1803365-01	1,1,2-Trichloro-1,2,2-trifluoroethane	2/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-013118	1803365-01	n-Propylbenzene	2/3/2018	0.5	Y	n	u		0.50	0.12	ug/L

Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-013118	1803365-11	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-1	1803365-10	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-2	1803365-09	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-3	1803365-08	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-23-1	1803365-06	Hexavalent Chromium	1/31/2018	#####	Y	y	v j		0.0020	0.0007	mg/L

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Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1803365-05	Hexavalent Chromium	1/31/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-23-3	1803365-04	Hexavalent Chromium	1/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-23-4	1803365-02	Hexavalent Chromium	1/31/2018	0.003	Y	y	v		0.0020	0.0007	mg/L

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SDG: 18-03552

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Total Recoverable Chromium	2/7/2018	32	Y	y	v		3.0	0.50	ug/L
DUP-7-1Q18	1803552-12	Total Recoverable Chromium	2/7/2018	5	Y	y	v		3.0	0.50	ug/L
DUP-7-1Q18	B004174-DUP	Total Recoverable Chromium	2/7/2018	5.237	Y	y	v		3.0	0.50	ug/L
EB-8-020118	1803552-06	Total Recoverable Chromium	2/7/2018	0.79	Y	y	v j	U	3.0	0.50	ug/L
MW-10	1803552-08	Total Recoverable Chromium	2/7/2018	4.9	Y	y	v		3.0	0.50	ug/L
MW-13	1803552-03	Total Recoverable Chromium	2/7/2018	3500	Y	y	v		15	2.5	ug/L
MW-15	1803552-10	Total Recoverable Chromium	2/7/2018	6.8	Y	y	v		3.0	0.50	ug/L
MW-16	1803552-04	Total Recoverable Chromium	2/7/2018	4600	Y	y	v		15	2.5	ug/L
MW-5	1803552-09	Total Recoverable Chromium	2/7/2018	2	Y	y	v j	U	3.0	0.50	ug/L
MW-6	1803552-07	Total Recoverable Chromium	2/7/2018	90	Y	y	v		3.0	0.50	ug/L
MW-7	1803552-05	Total Recoverable Chromium	2/7/2018	200	Y	y	v		3.0	0.50	ug/L
MW-8	1803552-02	Total Recoverable Chromium	2/7/2018	3.8	Y	y	v	U	3.0	0.50	ug/L
MW-8	B004172-DUP	Total Recoverable Chromium	2/7/2018	3.942	Y	y	v		3.0	0.50	ug/L

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1803552-03	Sulfate	2/2/2018	45	Y	y	v		1.0	0.13	mg/L
MW-13	1803552-03	Nitrate as N	2/2/2018	1.9	Y	y	v		0.10	0.021	mg/L
MW-13	1803552-03	Chloride	2/2/2018	64	Y	y	v		0.50	0.077	mg/L
MW-16	1803552-04	Chloride	2/2/2018	87	Y	y	v		0.50	0.077	mg/L
MW-16	1803552-04	Sulfate	2/2/2018	51	Y	y	v		1.0	0.13	mg/L
MW-16	1803552-04	Nitrate as N	2/2/2018	1.5	Y	y	v		0.10	0.021	mg/L
MW-7	1803552-05	Nitrate as N	2/2/2018	1.2	Y	y	v		0.10	0.021	mg/L
MW-7	1803552-05	Sulfate	2/2/2018	52	Y	y	v		1.0	0.13	mg/L

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Analytical Method EPA-300.0

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1803552-05	Chloride	2/2/2018	87	Y	y	v		0.50	0.077	mg/L
MW-8	1803552-02	Sulfate	2/2/2018	35	Y	y	v		1.0	0.13	mg/L
MW-8	1803552-02	Nitrate as N	2/2/2018	2.9	Y	y	v		0.10	0.021	mg/L
MW-8	1803552-02	Chloride	2/2/2018	27	Y	y	v		0.50	0.077	mg/L
MW-8	B003803-DUP	Chloride	2/2/2018	26.557	Y	y	v		0.50	0.077	mg/L
MW-8	B003803-DUP	Nitrate as N	2/2/2018	2.85	Y	y	v		0.10	0.021	mg/L
MW-8	B003803-DUP	Sulfate	2/2/2018	33.983	Y	y	v		1.0	0.13	mg/L

Analytical Method EPA-314.0

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Perchlorate	2/26/2018	3.6	Y	y	v j		4.0	0.58	ug/L
EB-8-020118	1803552-06	Perchlorate	2/23/2018	4	Y	n	u		4.0	0.58	ug/L
MW-10	1803552-08	Perchlorate	2/23/2018	5.3	Y	y	v		4.0	0.58	ug/L
MW-13	1803552-03	Perchlorate	2/25/2018	83	Y	y	v		20	2.9	ug/L
MW-16	1803552-04	Perchlorate	2/23/2018	0.59	Y	y	v j		4.0	0.58	ug/L
MW-5	1803552-09	Perchlorate	2/23/2018	4	Y	n	u		4.0	0.58	ug/L
MW-6	1803552-07	Perchlorate	2/23/2018	3.9	Y	y	v j		4.0	0.58	ug/L
MW-7	1803552-05	Perchlorate	2/23/2018	9.6	Y	y	v		4.0	0.58	ug/L
MW-8	1803552-02	Perchlorate	2/25/2018	21	Y	y	v		8.0	1.2	ug/L

Analytical Method EPA-353.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1803552-03	Nitrite as N	2/2/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-16	1803552-04	Nitrite as N	2/2/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-7	1803552-05	Nitrite as N	2/2/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-8	1803552-02	Nitrite as N	2/2/2018	0.05	Y	n	u		0.050	0.010	mg/L

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Analytical Method EPA-353.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-8	B003973-DUP	Nitrite as N	2/2/2018	0.05	Y	n	u		0.050	0.010	mg/L

Analytical Method EPA-365.1											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1803552-03	ortho-Phosphate as P	2/2/2018	0.02	Y	y	v j		0.050	0.017	mg/L
MW-16	1803552-04	ortho-Phosphate as P	2/2/2018	0.21	Y	y	v		0.050	0.017	mg/L
MW-7	1803552-05	ortho-Phosphate as P	2/2/2018	0.029	Y	y	v j		0.050	0.017	mg/L
MW-8	1803552-02	ortho-Phosphate as P	2/2/2018	0.05	Y	n	u		0.050	0.017	mg/L
MW-8	B003961-DUP	ortho-Phosphate as P	2/2/2018	0.05	Y	n	u		0.050	0.017	mg/L

Analytical Method EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
DUP-6-1Q18	1803552-11	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
DUP-6-1Q18	1803552-11	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
DUP-6-1Q18	1803552-11	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-6-1Q18	1803552-11	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-6-1Q18	1803552-11	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-1Q18	1803552-11	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-6-1Q18	1803552-11	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	10	Y	y	v s				ug/L
DUP-6-1Q18	1803552-11	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-1Q18	1803552-11	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-1Q18	1803552-11	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-1Q18	1803552-11	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L

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Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-6-1Q18	1803552-11	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-1Q18	1803552-11	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-1Q18	1803552-11	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
DUP-6-1Q18	1803552-11	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
DUP-6-1Q18	1803552-11	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-6-1Q18	1803552-11	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-6-1Q18	1803552-11	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
DUP-6-1Q18	1803552-11	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-6-1Q18	1803552-11	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
DUP-6-1Q18	1803552-11	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-6-1Q18	1803552-11	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-1Q18	1803552-11	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
DUP-6-1Q18	1803552-11	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
DUP-6-1Q18	1803552-11	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-6-1Q18	1803552-11	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-6-1Q18	1803552-11	Toluene-d8 (Surrogate)	2/13/2018	9.4	Y	y	v s				ug/L
DUP-6-1Q18	1803552-11	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
DUP-6-1Q18	1803552-11	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
DUP-6-1Q18	1803552-11	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-1Q18	1803552-11	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
DUP-6-1Q18	1803552-11	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
DUP-6-1Q18	1803552-11	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
DUP-6-1Q18	1803552-11	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.6	Y	y	vs				ug/L
DUP-6-1Q18	1803552-11	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-1Q18	1803552-11	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
DUP-6-1Q18	1803552-11	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-1Q18	1803552-11	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-6-1Q18	1803552-11	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-1Q18	1803552-11	Chloroform	2/13/2018	0.38	Y	y	vj		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-1Q18	1803552-11	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-1Q18	1803552-11	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-1Q18	1803552-11	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-1Q18	1803552-11	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	Tetrachloroethene	2/13/2018	0.31	Y	y	vj		0.50	0.23	ug/L
DUP-6-1Q18	1803552-11	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-1Q18	1803552-11	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-1Q18	1803552-11	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Trichloroethene	2/13/2018	1.5	Y	y	v		0.50	0.19	ug/L
DUP-6-1Q18	1803552-11	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-1Q18	1803552-11	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-6-1Q18	1803552-11	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-1Q18	1803552-11	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-6-1Q18	1803552-11	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-1Q18	1803552-11	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-1Q18	1803552-11	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-1Q18	1803552-11	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-1Q18	1803552-11	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-1Q18	1803552-11	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-1Q18	1803552-11	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-1Q18	1803552-11	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-1Q18	1803552-11	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-1Q18	1803552-11	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-1Q18	1803552-11	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-1Q18	1803552-11	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-1Q18	1803552-11	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-1Q18	1803552-11	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-020118	1803552-06	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
EB-8-020118	1803552-06	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-020118	1803552-06	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
EB-8-020118	1803552-06	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-020118	1803552-06	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-020118	1803552-06	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-020118	1803552-06	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-020118	1803552-06	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-8-020118	1803552-06	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-8-020118	1803552-06	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-020118	1803552-06	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-020118	1803552-06	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-020118	1803552-06	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-8-020118	1803552-06	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-020118	1803552-06	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
EB-8-020118	1803552-06	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-020118	1803552-06	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-020118	1803552-06	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-020118	1803552-06	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-020118	1803552-06	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-8-020118	1803552-06	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-8-020118	1803552-06	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
EB-8-020118	1803552-06	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
EB-8-020118	1803552-06	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-020118	1803552-06	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-020118	1803552-06	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-020118	1803552-06	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-020118	1803552-06	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-020118	1803552-06	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
EB-8-020118	1803552-06	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-020118	1803552-06	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
EB-8-020118	1803552-06	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
EB-8-020118	1803552-06	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
EB-8-020118	1803552-06	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
EB-8-020118	1803552-06	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
EB-8-020118	1803552-06	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
EB-8-020118	1803552-06	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
EB-8-020118	1803552-06	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-8-020118	1803552-06	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-020118	1803552-06	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
EB-8-020118	1803552-06	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
EB-8-020118	1803552-06	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
EB-8-020118	1803552-06	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-8-020118	1803552-06	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-020118	1803552-06	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-8-020118	1803552-06	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-020118	1803552-06	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-020118	1803552-06	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-020118	1803552-06	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
EB-8-020118	1803552-06	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L	
EB-8-020118	1803552-06	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L	
EB-8-020118	1803552-06	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L	
EB-8-020118	1803552-06	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L	
EB-8-020118	1803552-06	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-8-020118	1803552-06	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-8-020118	1803552-06	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L	
EB-8-020118	1803552-06	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	9.7	Y	y	v s				ug/L	
EB-8-020118	1803552-06	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L	
EB-8-020118	1803552-06	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L	
EB-8-020118	1803552-06	Toluene-d8 (Surrogate)	2/13/2018	9.4	Y	y	v s				ug/L	
EB-8-020118	1803552-06	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L	
EB-8-020118	1803552-06	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L	
EB-8-020118	1803552-06	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L	
EB-8-020118	1803552-06	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L	
EB-8-020118	1803552-06	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L	
EB-8-020118	1803552-06	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L	
EB-8-020118	1803552-06	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L	
EB-8-020118	1803552-06	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L	
EB-8-020118	1803552-06	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-8-020118	1803552-06	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.9	Y	y	v s				ug/L	
EB-8-020118	1803552-06	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-8-020118	1803552-06	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-8-020118	1803552-06	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L	
EB-8-020118	1803552-06	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L	

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-020118	1803552-06	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-020118	1803552-06	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-020118	1803552-06	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-020118	1803552-06	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-020118	1803552-06	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-020118	1803552-06	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-8-020118	1803552-06	Chloroform	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-020118	1803552-06	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-020118	1803552-06	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-020118	1803552-06	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-020118	1803552-06	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-8-020118	1803552-06	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
EB-8-020118	1803552-06	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-8-020118	1803552-06	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-8-020118	1803552-06	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-020118	1803552-06	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1803552-08	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-10	1803552-08	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1803552-08	trans-1,2-Dichloroethene	2/13/2018	0.2	Y	y	v j		0.50	0.17	ug/L
MW-10	1803552-08	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1803552-08	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1803552-08	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1803552-08	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1803552-08	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-10	1803552-08	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1803552-08	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1803552-08	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1803552-08	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1803552-08	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1803552-08	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1803552-08	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1803552-08	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1803552-08	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1803552-08	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1803552-08	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1803552-08	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1803552-08	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1803552-08	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1803552-08	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-10	1803552-08	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-10	1803552-08	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1803552-08	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-10	1803552-08	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1803552-08	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1803552-08	Chloroform	2/13/2018	0.45	Y	y	v j		0.50	0.14	ug/L
MW-10	1803552-08	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1803552-08	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1803552-08	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1803552-08	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1803552-08	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-10	1803552-08	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
MW-10	1803552-08	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-10	1803552-08	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-10	1803552-08	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-10	1803552-08	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-10	1803552-08	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-10	1803552-08	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-10	1803552-08	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-10	1803552-08	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-10	1803552-08	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-10	1803552-08	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
MW-10	1803552-08	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	10	Y	y	v s				ug/L
MW-10	1803552-08	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
MW-10	1803552-08	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-10	1803552-08	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1803552-08	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1803552-08	Toluene-d8 (Surrogate)	2/13/2018	9.6	Y	y	v s				ug/L
MW-10	1803552-08	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-10	1803552-08	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-10	1803552-08	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-10	1803552-08	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-10	1803552-08	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
MW-10	1803552-08	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1803552-08	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-10	1803552-08	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
MW-10	1803552-08	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.4	Y	y	v s				ug/L
MW-10	1803552-08	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-10	1803552-08	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1803552-08	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1803552-08	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1803552-08	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1803552-08	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1803552-08	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1803552-08	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1803552-08	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1803552-08	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1803552-08	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-10	1803552-08	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1803552-08	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1803552-08	Tetrachloroethene	2/13/2018	0.48	Y	y	v j		0.50	0.23	ug/L
MW-10	1803552-08	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1803552-08	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-10	1803552-08	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1803552-08	Trichloroethene	2/13/2018	3.8	Y	y	v		0.50	0.19	ug/L
MW-10	1803552-08	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1803552-08	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1803552-08	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1803552-08	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1803552-08	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-13	1803552-03	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1803552-03	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-13	1803552-03	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-13	1803552-03	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-13	1803552-03	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-13	1803552-03	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-13	1803552-03	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-13	1803552-03	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-13	1803552-03	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-13	1803552-03	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-13	1803552-03	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
MW-13	1803552-03	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-13	1803552-03	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-13	1803552-03	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-13	1803552-03	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1803552-03	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
MW-13	1803552-03	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
MW-13	1803552-03	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1803552-03	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-13	1803552-03	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1803552-03	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-13	1803552-03	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-13	1803552-03	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-13	1803552-03	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
MW-13	1803552-03	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-13	1803552-03	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1803552-03	Bromodichloromethane	2/13/2018	0.44	Y	y	v j		0.50	0.20	ug/L
MW-13	1803552-03	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
MW-13	1803552-03	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-13	1803552-03	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1803552-03	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-13	1803552-03	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1803552-03	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-13	1803552-03	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
MW-13	1803552-03	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
MW-13	1803552-03	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1803552-03	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1803552-03	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1803552-03	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1803552-03	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1803552-03	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1803552-03	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1803552-03	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1803552-03	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1803552-03	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1803552-03	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-13	1803552-03	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1803552-03	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1803552-03	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1803552-03	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1803552-03	Chloroform	2/13/2018	3.1	Y	y	v		0.50	0.14	ug/L
MW-13	1803552-03	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1803552-03	Carbon tetrachloride	2/13/2018	0.28	Y	y	v j		0.50	0.17	ug/L
MW-13	1803552-03	4-Bromofluorobenzene (Surrogate)	2/13/2018	10	Y	y	v s				ug/L
MW-13	1803552-03	Toluene-d8 (Surrogate)	2/13/2018	9.8	Y	y	v s				ug/L
MW-13	1803552-03	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1803552-03	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	9.5	Y	y	v s				ug/L
MW-13	1803552-03	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-13	1803552-03	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1803552-03	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1803552-03	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1803552-03	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1803552-03	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1803552-03	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1803552-03	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-13	1803552-03	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1803552-03	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1803552-03	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1803552-03	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-13	1803552-03	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1803552-03	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1803552-03	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1803552-03	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1803552-03	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1803552-03	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1803552-03	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1803552-03	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1803552-03	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1803552-03	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1803552-03	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1803552-03	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1803552-03	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1803552-04	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1803552-04	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-16	1803552-04	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1803552-04	2,2-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1803552-04	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1803552-04	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1803552-04	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-16	1803552-04	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1803552-04	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1803552-04	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1803552-04	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1803552-04	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1803552-04	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-16	1803552-04	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1803552-04	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-16	1803552-04	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1803552-04	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1803552-04	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1803552-04	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1803552-04	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RI	MDL	Units
MW-16	1803552-04	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1803552-04	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-16	1803552-04	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
MW-16	1803552-04	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1803552-04	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-16	1803552-04	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1803552-04	Chloroform	2/13/2018	1.7	Y	y	v		0.50	0.14	ug/L
MW-16	1803552-04	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1803552-04	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1803552-04	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1803552-04	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1803552-04	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1803552-04	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1803552-04	Bromoform	2/13/2018	1.7	Y	y	v		0.50	0.46	ug/L
MW-16	1803552-04	Dibromochloromethane	2/13/2018	1.5	Y	y	v		0.50	0.22	ug/L
MW-16	1803552-04	Bromodichloromethane	2/13/2018	1.1	Y	y	v		0.50	0.20	ug/L
MW-16	1803552-04	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1803552-04	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1803552-04	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1803552-04	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1803552-04	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-16	1803552-04	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1803552-04	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-16	1803552-04	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
MW-16	1803552-04	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-16	1803552-04	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1803552-04	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-16	1803552-04	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-16	1803552-04	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-16	1803552-04	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-16	1803552-04	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-16	1803552-04	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-16	1803552-04	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
MW-16	1803552-04	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-16	1803552-04	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
MW-16	1803552-04	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-16	1803552-04	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1803552-04	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	9.7	Y	y	v s				ug/L
MW-16	1803552-04	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
MW-16	1803552-04	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-16	1803552-04	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-16	1803552-04	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-16	1803552-04	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.9	Y	y	v s				ug/L
MW-16	1803552-04	Toluene-d8 (Surrogate)	2/13/2018	9.7	Y	y	v s				ug/L
MW-16	1803552-04	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-16	1803552-04	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-16	1803552-04	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-16	1803552-04	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-16	1803552-04	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1803552-04	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1803552-04	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1803552-04	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1803552-04	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-16	1803552-04	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-16	1803552-04	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-16	1803552-04	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	11	Y	y	v s				ug/L
MW-5	1803552-09	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-5	1803552-09	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-5	1803552-09	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1803552-09	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-5	1803552-09	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-5	1803552-09	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
MW-5	1803552-09	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
MW-5	1803552-09	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
MW-5	1803552-09	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
MW-5	1803552-09	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-5	1803552-09	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1803552-09	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-5	1803552-09	Toluene-d8 (Surrogate)	2/13/2018	9.6	Y	y	v s				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-5	1803552-09	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.5	Y	y	v s				ug/L
MW-5	1803552-09	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-5	1803552-09	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1803552-09	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-5	1803552-09	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-5	1803552-09	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
MW-5	1803552-09	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
MW-5	1803552-09	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-5	1803552-09	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1803552-09	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1803552-09	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1803552-09	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1803552-09	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1803552-09	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1803552-09	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-5	1803552-09	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1803552-09	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1803552-09	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1803552-09	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1803552-09	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-5	1803552-09	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1803552-09	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1803552-09	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1803552-09	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1803552-09	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-5	1803552-09	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-5	1803552-09	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-5	1803552-09	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1803552-09	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	Chloroform	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1803552-09	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-5	1803552-09	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1803552-09	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-5	1803552-09	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1803552-09	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1803552-09	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-5	1803552-09	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-5	1803552-09	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1803552-09	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1803552-09	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-5	1803552-09	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
MW-5	1803552-09	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-5	1803552-09	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-5	1803552-09	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-5	1803552-09	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-5	1803552-09	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1803552-09	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1803552-09	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1803552-09	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1803552-09	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-5	1803552-09	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1803552-09	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1803552-09	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1803552-09	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1803552-09	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1803552-09	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-5	1803552-09	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1803552-07	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-6	1803552-07	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-6	1803552-07	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
MW-6	1803552-07	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-6	1803552-07	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1803552-07	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-6	1803552-07	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-6	1803552-07	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-6	1803552-07	Tetrachloroethene	2/13/2018	0.33	Y	y	v j		0.50	0.23	ug/L
MW-6	1803552-07	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1803552-07	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1803552-07	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-6	1803552-07	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	Trichloroethene	2/13/2018	1.6	Y	y	v		0.50	0.19	ug/L
MW-6	1803552-07	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1803552-07	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1803552-07	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1803552-07	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1803552-07	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1803552-07	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-6	1803552-07	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
MW-6	1803552-07	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
MW-6	1803552-07	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-6	1803552-07	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-6	1803552-07	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-6	1803552-07	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.3	Y	y	vs				ug/L
MW-6	1803552-07	Toluene-d8 (Surrogate)	2/13/2018	9.4	Y	y	vs				ug/L
MW-6	1803552-07	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	10	Y	y	vs				ug/L
MW-6	1803552-07	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-6	1803552-07	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-6	1803552-07	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-6	1803552-07	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
MW-6	1803552-07	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
MW-6	1803552-07	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
MW-6	1803552-07	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-6	1803552-07	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-6	1803552-07	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-6	1803552-07	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-6	1803552-07	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-6	1803552-07	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1803552-07	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1803552-07	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1803552-07	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1803552-07	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-6	1803552-07	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1803552-07	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-6	1803552-07	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1803552-07	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1803552-07	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1803552-07	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-6	1803552-07	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-6	1803552-07	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1803552-07	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1803552-07	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	Chloroform	2/13/2018	0.47	Y	y	v j		0.50	0.14	ug/L
MW-6	1803552-07	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1803552-07	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1803552-07	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1803552-07	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1803552-07	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1803552-07	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1803552-07	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1803552-07	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1803552-07	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1803552-07	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1803552-07	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1803552-07	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1803552-07	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1803552-07	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1803552-07	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1803552-07	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1803552-07	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1803552-07	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1803552-07	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-7	1803552-05	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1803552-05	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1803552-05	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-7	1803552-05	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1803552-05	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1803552-05	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1803552-05	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1803552-05	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1803552-05	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1803552-05	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-7	1803552-05	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-7	1803552-05	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1803552-05	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1803552-05	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1803552-05	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1803552-05	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1803552-05	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1803552-05	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1803552-05	1,1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
MW-7	1803552-05	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-7	1803552-05	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
MW-7	1803552-05	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1803552-05	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-7	1803552-05	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-7	1803552-05	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-7	1803552-05	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.8	Y	y	v s				ug/L
MW-7	1803552-05	Toluene-d8 (Surrogate)	2/13/2018	9.7	Y	y	v s				ug/L
MW-7	1803552-05	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	10	Y	y	v s				ug/L
MW-7	1803552-05	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1803552-05	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-7	1803552-05	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
MW-7	1803552-05	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1803552-05	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
MW-7	1803552-05	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-7	1803552-05	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-7	1803552-05	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-7	1803552-05	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-7	1803552-05	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1803552-05	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-7	1803552-05	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-7	1803552-05	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-7	1803552-05	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-7	1803552-05	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
MW-7	1803552-05	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-7	1803552-05	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1803552-05	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-7	1803552-05	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1803552-05	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
MW-7	1803552-05	Chloroform	2/13/2018	5	Y	y	v		0.50	0.14	ug/L
MW-7	1803552-05	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1803552-05	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1803552-05	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1803552-05	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1803552-05	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1803552-05	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-7	1803552-05	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1803552-05	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-7	1803552-05	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1803552-05	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1803552-05	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1803552-05	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1803552-05	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1803552-05	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-7	1803552-05	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1803552-05	Bromodichloromethane	2/13/2018	0.65	Y	y	v		0.50	0.20	ug/L
MW-7	1803552-05	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1803552-05	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1803552-05	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1803552-05	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1803552-05	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1803552-02	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	9.7	Y	y	vs				ug/L
MW-8	1803552-02	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1803552-02	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1803552-02	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
MW-8	1803552-02	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
MW-8	1803552-02	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
MW-8	1803552-02	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
MW-8	1803552-02	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
MW-8	1803552-02	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
MW-8	1803552-02	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
MW-8	1803552-02	Toluene-d8 (Surrogate)	2/13/2018	9.8	Y	y	vs				ug/L
MW-8	1803552-02	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1803552-02	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1803552-02	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-8	1803552-02	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
MW-8	1803552-02	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
MW-8	1803552-02	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-8	1803552-02	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
MW-8	1803552-02	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
MW-8	1803552-02	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-8	1803552-02	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L
MW-8	1803552-02	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.3	Y	y	vs				ug/L
MW-8	1803552-02	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1803552-02	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
MW-8	1803552-02	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
MW-8	1803552-02	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1803552-02	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1803552-02	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L
MW-8	1803552-02	Trichlorofluoromethane	2/13/2018	0.58	Y	y	v		0.50	0.14	ug/L
MW-8	1803552-02	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1803552-02	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1803552-02	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1803552-02	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1803552-02	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1803552-02	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
MW-8	1803552-02	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-8	1803552-02	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1803552-02	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1803552-02	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1803552-02	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	Chloroform	2/13/2018	0.42	Y	y	v j		0.50	0.14	ug/L
MW-8	1803552-02	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1803552-02	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1803552-02	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-8	1803552-02	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1803552-02	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
MW-8	1803552-02	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1803552-02	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1803552-02	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1803552-02	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1803552-02	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1803552-02	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1803552-02	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-8	1803552-02	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1803552-02	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1803552-02	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
MW-8	1803552-02	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1803552-02	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1803552-02	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1803552-02	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-8	1803552-02	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
MW-8	1803552-02	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1803552-02	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
MW-8	1803552-02	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
MW-8	1803552-02	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-8	1803552-02	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1803552-02	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1803552-02	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1803552-02	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-8	1803552-02	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-8	1803552-02	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1803552-02	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1803552-02	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
TB-8-020118	1803552-01	trans-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	cis-1,2-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-020118	1803552-01	1,1-Dichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-020118	1803552-01	1,1-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-8-020118	1803552-01	cis-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	Dichlorodifluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	1,2-Dichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	1,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	1,3-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-020118	1803552-01	1,4-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	1,1-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-020118	1803552-01	trans-1,3-Dichloropropene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-020118	1803552-01	Ethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	Hexachlorobutadiene	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-020118	1803552-01	Isopropylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	p-Isopropyltoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	Methylene chloride	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-020118	1803552-01	Methyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	Naphthalene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-020118	1803552-01	n-Propylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-020118	1803552-01	2,2-Dichloropropane	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-020118	1803552-01	Bromobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	Carbon tetrachloride	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	Chlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	tert-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-020118	1803552-01	sec-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-020118	1803552-01	n-Butylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	Bromomethane	2/13/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-8-020118	1803552-01	Bromoform	2/13/2018	0.5	Y	n	u		0.50	0.46	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-8-020118	1803552-01	Bromodichloromethane	2/13/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-020118	1803552-01	trans-1,4-Dichloro-2-butene	2/13/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
TB-8-020118	1803552-01	Dibromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-020118	1803552-01	Styrene	2/13/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-020118	1803552-01	1,3-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-020118	1803552-01	Chloroform	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	Chloromethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-020118	1803552-01	2-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	4-Chlorotoluene	2/13/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-8-020118	1803552-01	Benzene	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-020118	1803552-01	Chloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	1,2-Dibromo-3-chloropropane	2/13/2018	1	Y	n	u		1.0	0.89	ug/L
TB-8-020118	1803552-01	1,2-Dibromoethane	2/13/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-020118	1803552-01	Dibromomethane	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-020118	1803552-01	1,2-Dichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-020118	1803552-01	Bromochloromethane	2/13/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-020118	1803552-01	2-Hexanone	2/13/2018	10	Y	n	u		10	5.0	ug/L
TB-8-020118	1803552-01	Tetrahydrofuran	2/13/2018	20	Y	n	u		20	5.2	ug/L
TB-8-020118	1803552-01	Propionitrile	2/13/2018	20	Y	n	u		20	6.2	ug/L
TB-8-020118	1803552-01	Pentachloroethane	2/13/2018	2	Y	n	u		2.0	0.63	ug/L
TB-8-020118	1803552-01	Ethyl t-butyl ether	2/13/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-8-020118	1803552-01	Methyl methacrylate	2/13/2018	5	Y	n	u		5.0	1.2	ug/L
TB-8-020118	1803552-01	Methyl isobutyl ketone	2/13/2018	10	Y	n	u		10	2.4	ug/L
TB-8-020118	1803552-01	Methyl iodide	2/13/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-8-020118	1803552-01	Methyl ethyl ketone	2/13/2018	10	Y	n	u		10	3.3	ug/L

SDG:

18-03552

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-8-020118	1803552-01	t-Butyl alcohol	2/13/2018	10	Y	n	u		10	9.4	ug/L
TB-8-020118	1803552-01	Methacrylonitrile	2/13/2018	10	Y	n	u		10	2.3	ug/L
TB-8-020118	1803552-01	Ethyl methacrylate	2/13/2018	4	Y	n	u		4.0	1.3	ug/L
TB-8-020118	1803552-01	2-Nitropropane	2/13/2018	0	Y	y	v				ug/L
TB-8-020118	1803552-01	Nitrobenzene	2/13/2018	0	Y	y	v				ug/L
TB-8-020118	1803552-01	Methyl acrylate	2/13/2018	0	Y	y	v				ug/L
TB-8-020118	1803552-01	1,1-Dichloropropanone	2/13/2018	0	Y	y	v				ug/L
TB-8-020118	1803552-01	1-Chlorobutane	2/13/2018	0	Y	y	v				ug/L
TB-8-020118	1803552-01	Chloroacetonitrile	2/13/2018	0	Y	y	v				ug/L
TB-8-020118	1803552-01	4-Bromofluorobenzene (Surrogate)	2/13/2018	9.8	Y	y	v s				ug/L
TB-8-020118	1803552-01	Toluene-d8 (Surrogate)	2/13/2018	9.8	Y	y	v s				ug/L
TB-8-020118	1803552-01	Hexachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-020118	1803552-01	1,2-Dichloroethane-d4 (Surrogate)	2/13/2018	8.8	Y	y	v s				ug/L
TB-8-020118	1803552-01	1,2,4-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	1,1,2,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	Tetrachloroethene	2/13/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-020118	1803552-01	Toluene	2/13/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-020118	1803552-01	1,2,3-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-020118	1803552-01	1,2,4-Trichlorobenzene	2/13/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-020118	1803552-01	1,1,1-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-020118	1803552-01	1,1,2-Trichloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-020118	1803552-01	Trichloroethene	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-020118	1803552-01	Trichlorofluoromethane	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	p- & m-Xylenes	2/13/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-8-020118	1803552-01	1,1,2-Trichloro-1,2,2-trifluoroethane	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 18-03552

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-8-020118	1803552-01	o-Xylene	2/13/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-020118	1803552-01	1,3,5-Trimethylbenzene	2/13/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-020118	1803552-01	Vinyl chloride	2/13/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-020118	1803552-01	Acetone	2/13/2018	10	Y	n	u		10	6.6	ug/L
TB-8-020118	1803552-01	Acrylonitrile	2/13/2018	5	Y	n	u		5.0	1.5	ug/L
TB-8-020118	1803552-01	Allyl chloride	2/13/2018	5	Y	n	u		5.0	0.47	ug/L
TB-8-020118	1803552-01	t-Amyl Methyl ether	2/13/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-020118	1803552-01	Carbon disulfide	2/13/2018	1	Y	n	u		1.0	0.48	ug/L
TB-8-020118	1803552-01	Diethyl ether	2/13/2018	2	Y	n	u		2.0	0.33	ug/L
TB-8-020118	1803552-01	1,1,1,2-Tetrachloroethane	2/13/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-020118	1803552-01	1,2,3-Trichloropropane	2/13/2018	1	Y	n	u		1.0	0.78	ug/L

Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-1Q18	1803552-11	Hexavalent Chromium	2/2/2018	0.0017	Y	y	v j		0.0020	0.0007	mg/L
DUP-6-1Q18	B003905-DUP	Hexavalent Chromium	2/2/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
DUP-7-1Q18	1803552-12	Hexavalent Chromium	2/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-8-020118	1803552-06	Hexavalent Chromium	2/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-10	1803552-08	Hexavalent Chromium	2/2/2018	0.0023	Y	y	v		0.0020	0.0007	mg/L
MW-13	1803552-03	Hexavalent Chromium	2/2/2018	0.0046	Y	y	v		0.0020	0.0007	mg/L
MW-15	1803552-10	Hexavalent Chromium	2/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-16	1803552-04	Hexavalent Chromium	2/2/2018	0.0019	Y	y	v j		0.0020	0.0007	mg/L
MW-5	1803552-09	Hexavalent Chromium	2/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-6	1803552-07	Hexavalent Chromium	2/2/2018	0.0015	Y	y	v j		0.0020	0.0007	mg/L
MW-7	1803552-05	Hexavalent Chromium	2/2/2018	#####	Y	y	v j		0.0020	0.0007	mg/L

SDG:

18-03552

Analytical Method EPA-7196

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-8	1803552-02	Hexavalent Chromium	2/2/2018	0.0014	Y	y	vj		0.0020	0.0007	mg/L
MW-8	B003904-DUP	Hexavalent Chromium	2/2/2018	#####	Y	y	vj		0.0020	0.0007	mg/L

LDC #: 41461

EDD POPULATION COMPLETENESS WORKSHEET

Date: 3/30/18
 Page: 1 of 1
 2nd Reviewer: BA

The LDC job number listed above was entered by BJ

	EDD Process		Comments/Action
I.	EDD Completeness	-	
Ia.	- All methods present?	y	
Ib.	- All samples present/match report?	y	
Ic.	- All reported analytes present?	y	
Id.	- <u>10%</u> or 100% verification of EDD?	y	
II.	EDD Preparation/Entry	-	
IIa.	- Carryover U/J?	y	
IIb.	- Reason Codes used? If so, note which codes.	y	Full written reason
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	y	Qual Class (A or P) and Final Value
III.	Reasonableness Checks	-	
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	y	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	y	
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	y	
IIId.	- Does the detect flag require changing for blank qualifier? If so, are all U results marked ND?	N/NA	
IIIe.	- Do blank concentrations in report match EDD where data was qualified due to blank contamination?	y	
IIIf.	- Were multiple results reported due to dilutions/reanalysis? If so, were results qualified appropriately?	N/NA	
IIIg.	- Are there any discrepancies between the data packet and the EDD?	N	

Notes: *see discrepancy sheet
