

## **ATTACHMENT 2: DATA VALIDATION REPORTS**

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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

June 21, 2018

SUBJECT: NASA JPL, 2Q2018, Data Validation

Dear Mr. Conner,

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

**LDC Project #42346:**

**SDG #**

**Fraction**

18-12598, 18-12739  
18-12884

Volatiles, Metals, 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

EDD 90/10 (client select) LDC #42346 (Tidewater- Powell, OH / NASA JPL, 2Q2018)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (524.2)		1,4-Dioxane (8270C)		Metals (200.7 /200.8)		Alk. (2320B)		Cl,SO <sub>4</sub> NO <sub>3</sub> -N (300.0)		NO <sub>2</sub> -N (353.2)		O-PO <sub>4</sub> (365.1)		CLO <sub>4</sub> (314.0)		Cr(VI) (7196)		TDS (160.1)		pH (150.1)																
				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	W	S			
Matrix: Water/Soil																																								
A	18-12598	06/01/18	06/22/18	12	0	1	0	11	0	11	0	11	0	11	0	1	0	11	0	11	0	11	0	11	0															
A	18-12598	06/01/18	06/22/18	1	0	0	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0															
B	18-12739	06/01/18	06/22/18	9	0	1	0	8	0	8	0	8	0	8	0	-	-	8	0	8	0	8	0	8	0															
B	18-12739	06/01/18	06/22/18	1	0	0	0	1	0	1	0	1	0	1	0	-	-	1	0	1	0	1	0	1	0															
C	18-12884	06/01/18	06/22/18	13	0	-	-	12	0	12	0	12	0	12	0	-	-	12	0	12	0	12	0	12	0															
C	18-12884	06/01/18	06/22/18	2	0	-	-	2	0	2	0	2	0	2	0	-	-	2	0	2	0	2	0	2	0															
Total				38	0	2	0	35	0	35	0	35	0	35	0	1	0	35	0	35	0	35	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	321

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 13, 2018

**Parameters:** Volatiles

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12598

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-1-041818	1812598-01	Water	04/18/18
MW-23-5	1812598-02	Water	04/18/18
MW-23-4	1812598-03	Water	04/18/18
MW-23-3	1812598-04	Water	04/18/18
MW-23-2	1812598-05	Water	04/18/18
MW-23-1	1812598-06	Water	04/18/18
SB-1-041818	1812598-07	Water	04/18/18
EB-1-041818	1812598-08	Water	04/18/18
MW-24-5**	1812598-09**	Water	04/18/18
MW-24-4	1812598-10	Water	04/18/18
MW-24-3	1812598-11	Water	04/18/18
MW-24-2	1812598-12	Water	04/18/18
MW-24-1	1812598-13	Water	04/18/18
MW-23-2MS	1812598-05MS	Water	04/18/18
MW-23-2MSD	1812598-05MSD	Water	04/18/18
MW-24-2MS	1812598-12MS	Water	04/18/18
MW-24-2MSD	1812598-12MSD	Water	04/18/18

\*\*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
04/26/18	Bromomethane Methyl iodide Pentachloroethane	57.0 59.1 40.6	TB-1-041818 MW-23-5 MW-23-4 MW-23-3 MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3	J (all detects) UJ (all non-detects)	P
04/27/18	Bromomethane Methyl iodide Pentachloroethane	76.5 67.9 82.5	MW-24-2 MW-24-1	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-1-041818 was identified as a trip blank. No contaminants were found.

Sample EB-1-041818 was identified as an equipment blank. No contaminants were found.

Sample SB-1-041818 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**

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 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 18-12598**

Sample	Compound	Flag	A or P	Reason
TB-1-041818 MW-23-5 MW-23-4 MW-23-3 MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3	Bromomethane Methyl iodide Pentachloroethane	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D)
MW-24-2 MW-24-1	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG

LDC #: 42346A1

**VALIDATION COMPLETENESS WORKSHEET**

Date: 4/1/18

SDG #: 18-12598

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: J

2nd Reviewer: JVG

**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%. $r^2$ 10V ≤ 30%
IV.	Continuing calibration	M	20V ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	NO	TB=1. SB=7. EB=8
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  
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	TB-1-041818	1812598-01	Water	04/18/18
2	MW-23-5	1812598-02	Water	04/18/18
3	MW-23-4	1812598-03	Water	04/18/18
4	MW-23-3	1812598-04	Water	04/18/18
5	MW-23-2	1812598-05	Water	04/18/18
6	MW-23-1	1812598-06	Water	04/18/18
7	SB-1-041818	1812598-07	Water	04/18/18
8	EB-1-041818	1812598-08	Water	04/18/18
9	MW-24-5**	1812598-09**	Water	04/18/18
10	MW-24-4	1812598-10	Water	04/18/18
11	MW-24-3	1812598-11	Water	04/18/18
12	MW-24-2	1812598-12	Water	04/18/18
13	MW-24-1	1812598-13	Water	04/18/18

LDC #: 42346A1

### VALIDATION COMPLETENESS WORKSHEET

SDG #: 18-12598

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 4/11/18

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-23-2MS	1812598-05MS	Water	04/18/18
15	MW-23-2MSD	1812598-05MSD	Water	04/18/18
16	MW-24-2MS	1812598-12MS	Water	04/18/18
17	MW-24-2MSD	1812598-12MSD	Water	04/18/18
18				
19				
20				
21				
22				

Notes:


VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
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"/>	
<b>II. GC/MS Instrument performance check</b>				
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"/>	
<b>III. Initial calibration</b>				
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"/>	
<b>IIIa. Initial Calibration Verification calibration</b>				
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"/>	
<b>IV. Continuing calibration</b>				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Laboratory Blanks</b>				
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"/>	
<b>VI. Field blanks</b>				
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"/>	
<b>VII. Surrogate spikes</b>				
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"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
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"/>	
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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"/>	
<b>X. Field duplicates</b>				
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"/>	
<b>XI. Internal standards</b>				
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"/>	
<b>XII. Compound quantitation/CRQLs</b>				
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"/>	
<b>XIII. Target compound identification</b>				
Were relative retention times (RRT's) within $\pm 0.06$ 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"/>	
<b>XIV. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>XV. Overall assessment of data</b>				
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	WWWW. 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.

LDC # 4036A

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration**

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

**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".

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>4/26/18</u>	<u>26APR02</u>	<u>B</u>	<u>57.0</u>	<u>1-11.14-15.MB</u>	<u>↓/N/A</u>
		<u>↓ 3</u>	<u>Methyl iodide</u>	<u>59.1</u>	<u>(N/A)</u>	<u>↓</u>
			<u>2222</u>	<u>40.6</u>		<u>↓</u>
	<u>4/27/18</u>	<u>26APR32</u>	<u>B</u>	<u>76.5</u>	<u>12-13.16-17.MB</u>	<u>↓/N/A</u>
		<u>↓ 33</u>	<u>Methyl iodide</u>	<u>67.9</u>	<u>(N/A)</u>	<u>↓</u>
			<u>2222</u>	<u>82.5</u>		<u>↓</u>

## 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:

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

$$\text{average RRF} = \text{sum of the RRFs} / \text{number of standards}$$

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

A<sub>x</sub> = Area of compound,  
C<sub>x</sub> = Concentration of compound,  
S = Standard deviation of the RRFs  
X = Mean of the RRFs

A<sub>is</sub> = Area of associated internal standard  
C<sub>is</sub> = 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)	3/27/18	V (1st internal standard)	1.798647	1.798647	1.760283	1.760283	6.339782	6.340
			S (2nd internal standard)	0.3328806	0.3328806	0.3476939	0.3476939	4.564263	4.564
			EE (3rd internal standard)	1.965132	1.9651323	1.884709	1.884709	8.916074	8.916
			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 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:

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

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

Where: ave. RRF = initial calibration average RRF  
 RRF = continuing calibration RRF  
 A<sub>x</sub> = Area of compound,                      A<sub>is</sub> = Area of associated internal standard  
 C<sub>x</sub> = Concentration of compound,        C<sub>is</sub> = 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	26APR02	4/26/18	V (1st internal standard)	1.760283	1.85087	1.85087	5.1	5.1
			S (2nd internal standard)	0.3476939	0.3363987	0.3363987	3.2	3.2
			EE (3rd internal standard)	1.884709	1.865921	1.865921	1.0	1.0
			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.

LDC #: 42346A1

### VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1  
Reviewer: [Signature]  
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: 9

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.86	98.6	98.6	0
Bromofluorobenzene	✓	10.20	102	102	✓
1,2-Dichlorobenzene-d4 (1,2-DCA)	✓	10.15	102	102	✓
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 =  $|MSC - MSC| * 2 / (MSC + MSDC)$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 14/15

Compound	Spike Added		Sample Concentration	Spiked Sample Concentration		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	<u>(MSD)</u>			<u>(MSD)</u>		Percent Recovery		Percent Recovery		RPD	
	MS	MSD		MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	<u>25,000</u>	<u>25,000</u>	<u>ND</u>	<u>26,870</u>	<u>25,990</u>	<u>107</u>	<u>107</u>	<u>104</u>	<u>104</u>	<u>3.33</u>	<u>3.33</u>
Trichloroethene	<u>1</u>	<u>1</u>	<u>1.120</u>	<u>25,870</u>	<u>26,270</u>	<u>98.8</u>	<u>98.8</u>	<u>101</u>	<u>101</u>	<u>1.69</u>	<u>1.69</u>
Benzene	<u>1</u>	<u>1</u>	<u>ND</u>	<u>26,110</u>	<u>25,680</u>	<u>104</u>	<u>104</u>	<u>103</u>	<u>103</u>	<u>1.66</u>	<u>1.66</u>
Toluene	<u>1</u>	<u>1</u>	<u>1</u>	<u>25,350</u>	<u>25,410</u>	<u>101</u>	<u>101</u>	<u>102</u>	<u>102</u>	<u>0.236</u>	<u>0.236</u>
Chlorobenzene	<u>1</u>	<u>1</u>	<u>1</u>	<u>25,710</u>	<u>25,590</u>	<u>103</u>	<u>103</u>	<u>102</u>	<u>102</u>	<u>0.468</u>	<u>0.468</u>

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 # 4236A

**VALIDATION FINDINGS WORKSHEET**  
**Laboratory Control Sample Results Verification**

Page: 1 of 1Reviewer: 92nd Reviewer: SVB**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: B0/2017-1351

Compound	Spike Added (NA)		Spiked Sample Concentration (NA)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	25.000	NA	26.630	NA	107	107				
Trichloroethene	↓	↓	25.310	↓	101	101				
Benzene	↓	↓	26.100	↓	104	104				
Toluene	↓	↓	25.620	↓	102	102				
Chlorobenzene	↓	↓	26.300	↓	105	105				

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)

N/A  
 N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

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

- A<sub>x</sub> = Area of the characteristic ion (EICP) for the compound to be measured
- A<sub>is</sub> = Area of the characteristic ion (EICP) for the specific internal standard
- I<sub>s</sub> = Amount of internal standard added in nanograms (ng)
- RRF = Relative response factor of the calibration standard.
- V<sub>s</sub> = 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. #9, ND  
~~#10, #22~~ #5, S

$$\text{Conc.} = \frac{(13976)(10.0)(1)}{(36071)(0.3476929)( )}$$

$$= 1.12 \mu\text{g/L}$$

#	Sample ID	Compound	Reported Concentration	Calculated Concentration	Qualification
	<u>5</u>	<u>S</u>	<u>1.1</u>		

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 13, 2018

**Parameters:** 1,4-Dioxane

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12598

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
MW-24-1	1812598-13	Water	04/18/18

## 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:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270C

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 not 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**

A decafluorotriphenylphosphine (DFTPP) tune was performed 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 15.0%.

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 20.0%.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

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

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## **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**

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.

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, 2Q2018**  
**1,4-Dioxane - Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**  
**1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG

**METHOD:** GC/MS 1,4-Dioxane (EPA SW846 Method 8270C )

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	RS051570, Y <sup>2</sup> 10/15 20/1
IV.	Continuing calibration	A	CV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N/A	
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	MW-24-1	1812598-13	Water	04/18/18
2				
3				
4				
5				
6				
7				
8				

Notes:


## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 13, 2018

**Parameters:** Metals

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12598

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-5	1812598-02	Water	04/18/18
MW-23-4	1812598-03	Water	04/18/18
MW-23-3	1812598-04	Water	04/18/18
MW-23-2	1812598-05	Water	04/18/18
MW-23-1	1812598-06	Water	04/18/18
SB-1-041818	1812598-07	Water	04/18/18
EB-1-041818	1812598-08	Water	04/18/18
MW-24-5**	1812598-09**	Water	04/18/18
MW-24-4	1812598-10	Water	04/18/18
MW-24-3	1812598-11	Water	04/18/18
MW-24-2	1812598-12	Water	04/18/18
MW-24-1	1812598-13	Water	04/18/18
MW-23-2MS	1812598-05MS	Water	04/18/18
MW-23-2MSD	1812598-05MSD	Water	04/18/18
MW-23-2DUP	1812598-05DUP	Water	04/18/18
MW-24-2MS	1812598-12MS	Water	04/18/18
MW-24-2MSD	1812598-12MSD	Water	04/18/18
MW-24-2DUP	1812598-12DUP	Water	04/18/18

\*\*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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

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

## IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

## 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	0.69500 mg/L	MW-23-5 MW-23-4 MW-23-3 MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5**
PB (prep blank)	Calcium Magnesium Sodium	0.048447 mg/L 0.021941 mg/L 0.098016 mg/L	MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3
ICB/CCB	Magnesium	0.033371 mg/L	MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Calcium Magnesium	0.078455 mg/L 0.020452 mg/L	MW-24-2 MW-24-1
ICB/CCB	Sodium	0.073935 mg/L	MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3 MW-24-2
ICB/CCB	Sodium	0.094021 mg/L	MW-24-1

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-23-5	Chromium	0.77 mg/L	0.77U ug/L
MW-23-4	Chromium	3.0 mg/L	3.0U ug/L
MW-23-3	Chromium	3.2 mg/L	3.2U ug/L
MW-23-2	Chromium	1.1 mg/L	1.1U ug/L
MW-23-1	Chromium	0.95 mg/L	0.95U ug/L
SB-1-041818	Chromium Calcium Magnesium Sodium	0.91 ug/L 0.10 mg/L 0.033 mg/L 0.072 mg/L	0.91U ug/L 0.10U mg/L 0.033U mg/L 0.072U mg/L
EB-1-041818	Chromium Calcium Sodium	0.73 ug/L 0.034 mg/L 0.062 mg/L	0.73U ug/L 0.034U mg/L 0.062U mg/L

## VI. Field Blanks

Sample EB-1-041818 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-1-041818	Chromium Calcium Potassium Sodium	0.73 ug/L 0.034 mg/L 0.14 mg/L 0.062 mg/L

Sample SB-1-041818 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
SB-1-041818	Chromium Calcium Magnesium Sodium	0.91 ug/L 0.10 mg/L 0.033 mg/L 0.072 mg/L

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-23-2MS/MSD, no data were qualified for Calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. 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 methods. 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 methods. 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, 2Q2018**  
**Metals - Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**  
**Metals - Laboratory Blank Data Qualification Summary - SDG 18-12598**

Sample	Analyte	Modified Final Concentration	A or P
MW-23-5	Chromium	0.77U ug/L	A
MW-23-4	Chromium	3.0U ug/L	A
MW-23-3	Chromium	3.2U ug/L	A
MW-23-2	Chromium	1.1U ug/L	A
MW-23-1	Chromium	0.95U ug/L	A
SB-1-041818	Chromium Calcium Magnesium Sodium	0.91U ug/L 0.10U mg/L 0.033U mg/L 0.072U mg/L	A
EB-1-041818	Chromium Calcium Sodium	0.73U ug/L 0.034U mg/L 0.062U mg/L	A

LDC #: 42346A4a

**VALIDATION COMPLETENESS WORKSHEET**


Date: 6/13/18

SDG #: 18-12598

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: **METHOD:** Metals (EPA Method 200.7/200.8)

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	
V.	Laboratory Blanks	SW	SB = 6, EB = 7
VI.	Field Blanks	SW	
VII.	Matrix Spike/Matrix Spike Duplicates	A	(13,14)** (a > 4x), (16,17)
VIII.	Duplicate sample analysis	A	15, 18
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LOS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-23-5	1812598-02	Water	04/18/18
2	MW-23-4	1812598-03	Water	04/18/18
3	MW-23-3	1812598-04	Water	04/18/18
4	MW-23-2	1812598-05	Water	04/18/18
5	MW-23-1	1812598-06	Water	04/18/18
6	SB-1-041818	1812598-07	Water	04/18/18
7	EB-1-041818	1812598-08	Water	04/18/18
8	MW-24-5**	1812598-09**	Water	04/18/18
9	MW-24-4	1812598-10	Water	04/18/18
10	MW-24-3	1812598-11	Water	04/18/18
11	MW-24-2	1812598-12	Water	04/18/18
12	MW-24-1	1812598-13	Water	04/18/18
13	MW-23-2MS	1812598-05MS	Water	04/18/18
14	MW-23-2MSD	1812598-05MSD	Water	04/18/18
15	MW-23-2DUP	1812598-05DUP	Water	04/18/18

LDC #: 42346A4a

### VALIDATION COMPLETENESS WORKSHEET

Date: 6/13/19

SDG #: 18-12598

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]  
2nd Reviewer: [Signature]

**METHOD:** Metals (EPA Method 200.7/200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-24-2MS	1812598-12MS	Water	04/18/18
17	MW-24-2MSD	1812598-12MSD	Water	04/18/18
18	MW-24-2DUP	1812598-12DUP	Water	04/18/18
19				
20				
21				
22				
23				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
<b>II. ICP/MS Tune</b>				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
<b>III. Calibration</b>				
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?			✓	
<b>IV. Blanks</b>				
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.	✓	✓		
<b>V. ICP Interference Check Sample</b>				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
<b>VI. Matrix spike/Matrix spike duplicates</b>				
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.	✓			
<b>VII. Laboratory control samples</b>				
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
<b>VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)</b>				
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?			✓	
<b>IX. ICP Serial Dilution</b>				
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.		✓		
<b>X. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
<b>XI. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>XII. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
<b>XIII. Field blanks</b>				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

**VALIDATION FINDINGS WORKSHEET  
Sample Specific Element Reference**

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-12	W	Al, Sb, <u>As</u> , Ba, Be, Cd, <u>Ca</u> , <u>Cr</u> , Co, Cu, <u>Fe</u> , <u>Pb</u> , <u>Mg</u> , Mn, Hg, Ni, <u>K</u> , Se, Ag, <u>Na</u> , Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
DC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
13-18	W	Al, Sb, <u>As</u> , Ba, Be, Cd, <u>Ca</u> , <u>Cr</u> , Co, Cu, <u>Fe</u> , <u>Pb</u> , <u>Mg</u> , Mn, Hg, Ni, <u>K</u> , Se, Ag, <u>Na</u> , Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
<b>Analysis Method</b>		
ICP		Al, Sb, As, Ba, Be, Cd, <u>Ca</u> , Cr, Co, Cu, <u>Fe</u> , <u>Pb</u> , <u>Mg</u> , Mn, Hg, Ni, <u>K</u> , Se, Ag, <u>Na</u> , Ti, V, Zn, Mo, B, Sn, Ti, U,
ICP-MS		Al, Sb, <u>As</u> , Ba, Be, Cd, <u>Ca</u> , <u>Cr</u> , Co, Cu, <u>Pb</u> , Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,

Comments: Mercury by CVAA if performed

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 - 8

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level	1	2	3	4	5	6	7		
Cr		0.69500		3.475	0.77	3.0	3.2	1.1	0.95	0.91	0.73		

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 4 - 10

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level	6	7							
Ca		0.048447		0.242235	0.10	0.034							
Mg		0.021941	0.033371	0.166855	0.033								
Na		0.098016		0.49008	0.072	0.062							

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 11 - 12

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
Ca		0.078455		0.392275									
Mg		0.020452		0.10226									

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 5 - 11

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level	6	7							
Na			0.073935	0.369675	0.072	0.062							

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 12

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
Na			0.094021	0.470105									

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 #: 42346A4a  
 SDG #: 18-12593

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

Page: 1 of 1  
 Reviewer: VS  
 2nd reviewer: Z

**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 SB (circle one)

Analyte	Concentration Units (ug/L)
Chromium	0.91 ug/L
Calcium	0.10 mg/L
Magnesium	0.033 mg/L
Sodium	0.072 mg/L

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

Analyte	Concentration Units (ug/L)
Chromium	0.73 ug/L
Calcium	0.034 mg/L
Potassium	0.14 mg/L
Sodium	0.062 mg/L

## 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)						
ICV	ICP (Initial calibration) 5/1 11:20	Fe	10.22 mg/L	10.000 mg/L	102.7	102.7	Y
ICV	ICP/MS (Initial calibration) 4/24 8:15	As	122.579 ug/L	125 ug/L	98.17	98.17	Y
	CVAA (Initial calibration)						
CCV <sub>s</sub>	ICP (Continuing calibration) 5/1 21:25	Fe	11.02 mg/L	10.000 mg/L	110.7	110.7	Y
CCV <sub>E</sub>	ICP/MS (Continuing calibration) 4/27 17:03	Cr	42.198 ug/L	40.000 ug/L	105.7	105.7	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	7.016	6.975	± 0.1 AMU	NA	Y
	%RSD	108	21188.3	≤ 5% RSD	1.87	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	
IFB	ICP interference check <u>1809/108</u>	Ca	498.5 mg/L	500.00 mg/L	99.77	99.77	Y
LCS	Laboratory control sample <u>1748</u>	Pb	102.753 ug/L	100.00 ug/L	1037	1037	Y
MS	Matrix spike -5	Fe	<u>94.612 ug/L</u> (SSR-SR) 1.218 mg/L - SR = 1.1233 mg/L	1000.0 ug/L	1127	1127	Y
MSD	Duplicate	Fe	1.157 mg/L	Found: 1.218 mg/L	5.147	5.147	Y
PDS	Post digestion spike -12	Fe	1.125 mg/L	SR 0.039150 SA 1.0000 mg/L	1097	1097	Y
	ICP serial dilution						

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

LDC #: 42346A4a  
SDG #: 18-12598

**VALIDATION FINDINGS WORKSHEET**  
**Sample Calculation Verification**

Page: 1 of 1  
Reviewer: UB  
2nd reviewer: Z

**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 As 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

*As from Raw Data = 1.721 ug/L*

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	8	Fe	480	480	
		As	1.7	1.7	
		K	1.9 mg/L	1.9 mg/L	

Note: \_\_\_\_\_  
\_\_\_\_\_

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 14, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12598

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-5	1812598-02	Water	04/18/18
MW-23-4	1812598-03	Water	04/18/18
MW-23-3	1812598-04	Water	04/18/18
MW-23-2	1812598-05	Water	04/18/18
MW-23-1	1812598-06	Water	04/18/18
SB-1-041818	1812598-07	Water	04/18/18
EB-1-041818	1812598-08	Water	04/18/18
MW-24-5**	1812598-09**	Water	04/18/18
MW-24-4	1812598-10	Water	04/18/18
MW-24-3	1812598-11	Water	04/18/18
MW-24-2	1812598-12	Water	04/18/18
MW-24-1	1812598-13	Water	04/18/18
MW-23-2MS	1812598-05MS	Water	04/18/18
MW-23-2MSD	1812598-05MSD	Water	04/18/18
MW-23-2DUP	1812598-05DUP	Water	04/18/18
MW-24-2MS	1812598-12MS	Water	04/18/18
MW-24-2MSD	1812598-12MSD	Water	04/18/18
MW-24-2DUP	1812598-12DUP	Water	04/18/18

\*\*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:

Alkalinity by Standard Method 2320B

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 by EPA Method 365.1

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
MW-23-5 MW-23-4 MW-23-3 MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3 MW-24-2 MW-24-1	pH	7 days	48 hours	J (all detects)	,P

## 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-1-041818 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-1-041818	Chloride	0.13 mg/L

Sample SB-1-041818 was identified as a source blank. No contaminants were found with the following exceptions:



Blank ID	Analyte	Concentration
SB-1-041818	Chloride	0.12 mg/L

## 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 technical holding time, 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, 2Q2018  
Wet Chemistry - Data Qualification Summary - SDG 18-12598**

Sample	Analyte	Flag	A or P	Reason
MW-23-5 MW-23-4 MW-23-3 MW-23-2 MW-23-1 SB-1-041818 EB-1-041818 MW-24-5** MW-24-4 MW-24-3 MW-24-2 MW-24-1	pH	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018  
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG

LDC #: 42346A6

**VALIDATION COMPLETENESS WORKSHEET**


Date: 6/13/18

SDG #: 18-12598

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: 

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

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 SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	SW	SB=6, EB=7
VI.	Matrix Spike/Matrix Spike Duplicates	A	(13,14) (16,17)
VII.	Duplicate sample analysis	A	15, 18
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  
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-23-5	1812598-02	Water	04/18/18
2	MW-23-4	1812598-03	Water	04/18/18
3	MW-23-3	1812598-04	Water	04/18/18
4	MW-23-2	1812598-05	Water	04/18/18
5	MW-23-1	1812598-06	Water	04/18/18
6	SB-1-041818	1812598-07	Water	04/18/18
7	EB-1-041818	1812598-08	Water	04/18/18
8	MW-24-5**	1812598-09**	Water	04/18/18
9	MW-24-4	1812598-10	Water	04/18/18
10	MW-24-3	1812598-11	Water	04/18/18
11	MW-24-2	1812598-12	Water	04/18/18
12	MW-24-1 * OR	1812598-13	Water	04/18/18
13	MW-23-2MS * Clou cr	1812598-05MS	Water	04/18/18
14	MW-23-2MSD ↓	1812598-05MSD	Water	04/18/18
15	MW-23-2DUP * #, TDS	1812598-05DUP	Water	04/18/18
16	MW-24-2MS * Clou cr	1812598-12MS	Water	04/18/18
17	MW-24-2MSD ↓	1812598-12MSD	Water	04/18/18

LDC #: 42346A6

# VALIDATION COMPLETENESS WORKSHEET

Date: 6/13/18

SDG #: 18-12598

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]  
2nd Reviewer: \_\_\_\_\_

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

	Client ID	Lab ID	Matrix	Date
18	MW-24-2DUP <sup>*</sup> pH ClO <sub>4</sub>	1812598-12DUP	Water	04/18/18
19				
20				
21				
22				
23				
24				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.		✓		
<b>II. Calibration</b>				
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)	✓			
<b>III. Blanks</b>				
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.		✓		
<b>IV. Matrix spike/Matrix spike duplicates and Duplicates</b>				
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.	✓			
<b>V. Laboratory control samples</b>				
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?	✓			
<b>VI. Regional Quality Assurance and Quality Control</b>				
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
<b>VII. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
<b>VIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>IX. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
<b>X. Field blanks</b>				
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
1-13	pH (TDS) (Cl) F (NO <sub>3</sub> ) (NO <sub>2</sub> ) (SO <sub>4</sub> ) O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC (Cr6+) (ClO <sub>4</sub> )
13	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
QC	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
13, 14, 16, 17	pH TDS (Cl) F (NO <sub>3</sub> ) (NO <sub>2</sub> ) (SO <sub>4</sub> ) O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC (Cr6+) (ClO <sub>4</sub> )
15, 18	pH (TDS) (Cl) F (NO <sub>3</sub> ) (NO <sub>2</sub> ) (SO <sub>4</sub> ) O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC (Cr6+) (ClO <sub>4</sub> )
15	pH (TDS) Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>

Comments: \_\_\_\_\_

### VALIDATION FINDINGS WORKSHEET Technical Holding Times

All circled dates have exceeded the technical holding time.

Y N N/A Were all samples preserved as applicable to each method ?

Y N N/A Were all cooler temperatures within validation criteria?

Method:	EPA 150.1						
Parameters:	pH						
Technical holding time:	48 hours.						
Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
1	4/18/18 7:30	4/26/18 8:30	7 days	✓ 141/P (D24)			
2	8:05	8:30	↓	↓			
3	8:30	8:42	↓	↓			
4	9:00	8:19	↓	↓			
5	9:35	8:48	↓	↓			
6	9:45	8:53	↓	↓			
7	9:50	8:59	↓	↓			
8	7:30	9:04	↓	↓			
9	10:45	9:11 <del>16:45</del>	↓	↓			
10	11:45	9:16	↓	↓			
11	12:30	9:40	↓	↓			
12	13:15	9:59	↓	↓			



LDC #: 42346A6  
SDG #: 18-1259B

### VALIDATION FINDINGS WORKSHEET

#### Field Blanks

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

METHOD: Inorganics

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 SB (circle one)

Analyte	Concentration Units (mg/L)
Chloride	0.12

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

Analyte	Concentration Units (mg/L)
Chloride	0.13

LDC #: 42346A6

**Validation Findings Worksheet  
Initial and Continuing Calibration Calculation Verification**

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of C104 was recalculated. Calibration date: 4/16/18

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 <sup>2</sup>	r or r <sup>2</sup>	
Initial calibration	C104	s1	2	0.004	99.7749%	99.5063%	Y
		s2	4	0.006			
		s3	6	0.009			
		s4	10	0.015			
		s5	20	0.031			
Calibration verification	Cr6+	ICV	Found: 0.0500 mg/L	True: 0.0500 mg/L	100%	NC	Y
Calibration verification	Cl-	CCV	Found: 51.811 mg/L	True: 50.000 mg/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 #: 42346A4

**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	Alk <sup>-</sup>	106.096mg/L	100.00mg/L	106.7	106.7	Y
MS	Matrix spike sample -13	NO <sub>2</sub>	<sup>ND</sup> (SSR-SR) 0.5238mg/L	0.52632mg/L	99.57	99.7%	Y
MSD	Duplicate sample	NO <sub>2</sub>	0.52189mg/L	<u>FOUND:</u> 0.5238mg/L	0.365%	0.458%	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 Alk<sup>-</sup> reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation:

$$Alk^{-} = \frac{T_{mL} \times N \times 50000}{\text{Sample Vol}}$$

$$Alk^{-} = \frac{2.24 \text{ mL} \times 0.076 \times 50000}{5 \text{ mL}} = 170.896 \text{ mg/L}$$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	pH	8.08 pH U	8.08 pH units	Y
		TDS	270	270	Y
		NO <sub>3</sub>	1.0	1.0	Y
		Cr <sup>6+</sup>	0.0029	0.0028	Y
		Alk <sup>-</sup>	170	170	Y

Note: \_\_\_\_\_

## NASA JPL, 2Q2018, LDC# 42346B

SDG: 18-12739

Analytical Method		EPA-150.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	pH	4/30/2018	8.06	Y	y	v	J	0.05	0.05	pH Units
EB-2-041918	1812739-07	pH	4/30/2018	4.36	Y	y	v	J	0.05	0.05	pH Units
MW-14-4	1812739-09	pH	4/30/2018	8.16	Y	y	v	J	0.05	0.05	pH Units
MW-14-5	1812739-08	pH	4/30/2018	8.42	Y	y	v	J	0.05	0.05	pH Units
MW-4-1	1812739-06	pH	4/30/2018	7.51	Y	y	v	J	0.05	0.05	pH Units
MW-4-2	1812739-05	pH	4/30/2018	7.69	Y	y	v	J	0.05	0.05	pH Units
MW-4-3	1812739-04	pH	4/30/2018	8.01	Y	y	v	J	0.05	0.05	pH Units
MW-4-4	1812739-03	pH	4/30/2018	8.16	Y	y	v	J	0.05	0.05	pH Units
MW-4-5	1812739-02	pH	4/30/2018	8.04	Y	y	v	J	0.05	0.05	pH Units

Analytical Method		EPA-160.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	Total Dissolved Solids @ 180 C	4/25/2018	430	Y	y	v		33	33	mg/L
EB-2-041918	1812739-07	Total Dissolved Solids @ 180 C	4/25/2018	6.7	Y	n	u		6.7	6.7	mg/L
MW-14-4	1812739-09	Total Dissolved Solids @ 180 C	4/25/2018	430	Y	y	v		33	33	mg/L
MW-14-5	1812739-08	Total Dissolved Solids @ 180 C	4/25/2018	220	Y	y	v		20	20	mg/L
MW-4-1	1812739-06	Total Dissolved Solids @ 180 C	4/25/2018	280	Y	y	v		20	20	mg/L
MW-4-2	1812739-05	Total Dissolved Solids @ 180 C	4/25/2018	820	Y	y	v		50	50	mg/L
MW-4-3	1812739-04	Total Dissolved Solids @ 180 C	4/25/2018	640	Y	y	v		33	33	mg/L
MW-4-4	1812739-03	Total Dissolved Solids @ 180 C	4/25/2018	470	Y	y	v		33	33	mg/L
MW-4-5	1812739-02	Total Dissolved Solids @ 180 C	4/25/2018	310	Y	y	v		20	20	mg/L

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	Total Recoverable Potassium	5/2/2018	2.3	Y	y	v		1.0	0.10	mg/L

SDG: 18-12739

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	Total Recoverable Calcium	5/2/2018	67	Y	y	v		0.10	0.014	mg/L
Dup-1-2Q18	1812739-10	Total Recoverable Magnesium	5/2/2018	25	Y	y	v		0.050	0.019	mg/L
Dup-1-2Q18	1812739-10	Total Recoverable Iron	5/2/2018	38	Y	y	v j	U	50	30	ug/L
Dup-1-2Q18	1812739-10	Total Recoverable Sodium	5/2/2018	31	Y	y	v		0.50	0.051	mg/L
EB-2-041918	1812739-07	Total Recoverable Iron	5/2/2018	50	Y	n	u		50	30	ug/L
EB-2-041918	1812739-07	Total Recoverable Calcium	5/2/2018	0.045	Y	y	v j	U	0.10	0.014	mg/L
EB-2-041918	1812739-07	Total Recoverable Potassium	5/2/2018	1	Y	n	u		1.0	0.10	mg/L
EB-2-041918	1812739-07	Total Recoverable Magnesium	5/2/2018	0.05	Y	n	u		0.050	0.019	mg/L
EB-2-041918	1812739-07	Total Recoverable Sodium	5/2/2018	0.099	Y	y	v j	U	0.50	0.051	mg/L
MW-14-4	1812739-09	Total Recoverable Magnesium	5/2/2018	26	Y	y	v		0.050	0.019	mg/L
MW-14-4	1812739-09	Total Recoverable Potassium	5/2/2018	2.5	Y	y	v		1.0	0.10	mg/L
MW-14-4	1812739-09	Total Recoverable Iron	5/2/2018	39	Y	y	v j	U	50	30	ug/L
MW-14-4	1812739-09	Total Recoverable Calcium	5/2/2018	70	Y	y	v		0.10	0.014	mg/L
MW-14-4	1812739-09	Total Recoverable Sodium	5/2/2018	33	Y	y	v		0.50	0.051	mg/L
MW-14-5	1812739-08	Total Recoverable Calcium	5/2/2018	19	Y	y	v		0.10	0.014	mg/L
MW-14-5	1812739-08	Total Recoverable Magnesium	5/2/2018	13	Y	y	v		0.050	0.019	mg/L
MW-14-5	1812739-08	Total Recoverable Sodium	5/2/2018	33	Y	y	v		0.50	0.051	mg/L
MW-14-5	1812739-08	Total Recoverable Potassium	5/2/2018	2.1	Y	y	v		1.0	0.10	mg/L
MW-14-5	1812739-08	Total Recoverable Iron	5/2/2018	110	Y	y	v	U	50	30	ug/L
MW-4-1	1812739-06	Total Recoverable Magnesium	5/2/2018	15	Y	y	v		0.050	0.019	mg/L
MW-4-1	1812739-06	Total Recoverable Iron	5/2/2018	35	Y	y	v j	U	50	30	ug/L
MW-4-1	1812739-06	Total Recoverable Potassium	5/2/2018	2.7	Y	y	v		1.0	0.10	mg/L
MW-4-1	1812739-06	Total Recoverable Calcium	5/2/2018	45	Y	y	v		0.10	0.014	mg/L
MW-4-1	1812739-06	Total Recoverable Sodium	5/2/2018	16	Y	y	v		0.50	0.051	mg/L
MW-4-2	1812739-05	Total Recoverable Calcium	5/2/2018	150	Y	y	v		0.10	0.014	mg/L

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<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-4-2	1812739-05	Total Recoverable Sodium	5/2/2018	38	Y	y	v		0.50	0.051	mg/L
MW-4-2	1812739-05	Total Recoverable Potassium	5/2/2018	3.4	Y	y	v		1.0	0.10	mg/L
MW-4-2	1812739-05	Total Recoverable Iron	5/2/2018	79	Y	y	v	U	50	30	ug/L
MW-4-2	1812739-05	Total Recoverable Magnesium	5/2/2018	51	Y	y	v		0.050	0.019	mg/L
MW-4-3	1812739-04	Total Recoverable Magnesium	5/2/2018	46	Y	y	v		0.050	0.019	mg/L
MW-4-3	1812739-04	Total Recoverable Sodium	5/2/2018	36	Y	y	v		0.50	0.051	mg/L
MW-4-3	1812739-04	Total Recoverable Potassium	5/2/2018	3.1	Y	y	v		1.0	0.10	mg/L
MW-4-3	1812739-04	Total Recoverable Calcium	5/2/2018	97	Y	y	v		0.10	0.014	mg/L
MW-4-3	1812739-04	Total Recoverable Iron	5/2/2018	2500	Y	y	v		50	30	ug/L
MW-4-4	1812739-03	Total Recoverable Magnesium	5/2/2018	33	Y	y	v		0.050	0.019	mg/L
MW-4-4	1812739-03	Total Recoverable Potassium	5/2/2018	2.8	Y	y	v		1.0	0.10	mg/L
MW-4-4	1812739-03	Total Recoverable Iron	5/2/2018	3400	Y	y	v		50	30	ug/L
MW-4-4	1812739-03	Total Recoverable Sodium	5/2/2018	37	Y	y	v		0.50	0.051	mg/L
MW-4-4	1812739-03	Total Recoverable Calcium	5/2/2018	61	Y	y	v		0.10	0.014	mg/L
MW-4-5	1812739-02	Total Recoverable Potassium	5/2/2018	2.5	Y	y	v		1.0	0.10	mg/L
MW-4-5	1812739-02	Total Recoverable Iron	5/2/2018	3000	Y	y	v		50	30	ug/L
MW-4-5	1812739-02	Total Recoverable Sodium	5/2/2018	40	Y	y	v		0.50	0.051	mg/L
MW-4-5	1812739-02	Total Recoverable Calcium	5/2/2018	34	Y	y	v		0.10	0.014	mg/L
MW-4-5	1812739-02	Total Recoverable Magnesium	5/2/2018	26	Y	y	v		0.050	0.019	mg/L

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Total Recoverable Chromium	4/27/2018	3.7	Y	y	v		3.0	0.50	ug/L
Dup-1-2Q18	1812739-10	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
Dup-1-2Q18	1812739-10	Total Recoverable Arsenic	4/27/2018	1.2	Y	y	v j	U	2.0	0.70	ug/L

SDG: 18-12739

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-2-041918	1812739-07	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
EB-2-041918	1812739-07	Total Recoverable Chromium	4/27/2018	3	Y	n	u		3.0	0.50	ug/L
EB-2-041918	1812739-07	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-4	1812739-09	Total Recoverable Arsenic	4/27/2018	1.3	Y	y	v j	U	2.0	0.70	ug/L
MW-14-4	1812739-09	Total Recoverable Chromium	4/27/2018	2	Y	y	v j		3.0	0.50	ug/L
MW-14-4	1812739-09	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-5	1812739-08	Total Recoverable Chromium	4/27/2018	0.74	Y	y	v j		3.0	0.50	ug/L
MW-14-5	1812739-08	Total Recoverable Arsenic	4/27/2018	2	Y	y	v	U	2.0	0.70	ug/L
MW-14-5	1812739-08	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-1	1812739-06	Total Recoverable Chromium	4/27/2018	3	Y	n	u		3.0	0.50	ug/L
MW-4-1	1812739-06	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-1	1812739-06	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-2	1812739-05	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-2	1812739-05	Total Recoverable Chromium	4/27/2018	1.9	Y	y	v j		3.0	0.50	ug/L
MW-4-2	1812739-05	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-3	1812739-04	Total Recoverable Chromium	4/27/2018	2.8	Y	y	v j		3.0	0.50	ug/L
MW-4-3	1812739-04	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-3	1812739-04	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-4	1812739-03	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-4	1812739-03	Total Recoverable Chromium	4/27/2018	0.58	Y	y	v j		3.0	0.50	ug/L
MW-4-4	1812739-03	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-5	1812739-02	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-5	1812739-02	Total Recoverable Chromium	4/27/2018	0.67	Y	y	v j		3.0	0.50	ug/L
MW-4-5	1812739-02	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L



SDG: 18-12739

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	Chloride	4/20/2018	54	Y	y	v		0.50	0.077	mg/L
Dup-1-2Q18	1812739-10	Nitrate as N	4/20/2018	11	Y	y	v		0.10	0.021	mg/L
Dup-1-2Q18	1812739-10	Sulfate	4/20/2018	56	Y	y	v		1.0	0.13	mg/L
EB-2-041918	1812739-07	Sulfate	4/20/2018	1	Y	n	u		1.0	0.13	mg/L
EB-2-041918	1812739-07	Nitrate as N	4/20/2018	0.1	Y	n	u		0.10	0.021	mg/L
EB-2-041918	1812739-07	Chloride	4/20/2018	0.084	Y	y	v j		0.50	0.077	mg/L
MW-14-4	1812739-09	Sulfate	4/20/2018	55	Y	y	v		1.0	0.13	mg/L
MW-14-4	1812739-09	Nitrate as N	4/20/2018	11	Y	y	v		0.10	0.021	mg/L
MW-14-4	1812739-09	Chloride	4/20/2018	54	Y	y	v		0.50	0.077	mg/L
MW-14-5	1812739-08	Chloride	4/20/2018	9.3	Y	y	v		0.50	0.077	mg/L
MW-14-5	1812739-08	Nitrate as N	4/20/2018	0.12	Y	y	v		0.10	0.021	mg/L
MW-14-5	1812739-08	Sulfate	4/20/2018	16	Y	y	v		1.0	0.13	mg/L
MW-4-1	1812739-06	Nitrate as N	4/20/2018	0.76	Y	y	v		0.10	0.021	mg/L
MW-4-1	1812739-06	Chloride	4/20/2018	12	Y	y	v		0.50	0.077	mg/L
MW-4-1	1812739-06	Sulfate	4/20/2018	29	Y	y	v		1.0	0.13	mg/L
MW-4-2	1812739-05	Sulfate	4/20/2018	170	Y	y	v		1.0	0.13	mg/L
MW-4-2	1812739-05	Nitrate as N	4/20/2018	12	Y	y	v		0.10	0.021	mg/L
MW-4-2	1812739-05	Chloride	4/20/2018	120	Y	y	v		0.50	0.077	mg/L
MW-4-3	1812739-04	Sulfate	4/20/2018	130	Y	y	v		1.0	0.13	mg/L
MW-4-3	1812739-04	Nitrate as N	4/20/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-4-3	1812739-04	Chloride	4/20/2018	110	Y	y	v		0.50	0.077	mg/L
MW-4-4	1812739-03	Sulfate	4/19/2018	30	Y	y	v		1.0	0.13	mg/L
MW-4-4	1812739-03	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-4-4	1812739-03	Chloride	4/19/2018	88	Y	y	v		0.50	0.077	mg/L
MW-4-5	1812739-02	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L

SDG: 18-12739

<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-4-5	1812739-02	Chloride	4/19/2018	59	Y	y	v		0.50	0.077	mg/L
MW-4-5	1812739-02	Sulfate	4/19/2018	0.27	Y	y	v j		1.0	0.13	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Perchlorate	5/7/2018	3	Y	y	v j		4.0	0.58	ug/L
EB-2-041918	1812739-07	Perchlorate	5/7/2018	4	Y	n	u		4.0	0.58	ug/L
MW-14-4	1812739-09	Perchlorate	5/7/2018	4.4	Y	y	v		4.0	0.58	ug/L
MW-14-5	1812739-08	Perchlorate	5/8/2018	4	Y	n	u		4.0	0.58	ug/L
MW-4-1	1812739-06	Perchlorate	5/7/2018	0.59	Y	y	v j		4.0	0.58	ug/L
MW-4-2	1812739-05	Perchlorate	5/7/2018	6.5	Y	y	v		4.0	0.58	ug/L
MW-4-3	1812739-04	Perchlorate	5/7/2018	4	Y	n	u		4.0	0.58	ug/L
MW-4-4	1812739-03	Perchlorate	5/7/2018	1.4	Y	y	v j		4.0	0.58	ug/L
MW-4-5	1812739-02	Perchlorate	5/7/2018	4	Y	n	u		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
EB-2-041918	1812739-07	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-14-4	1812739-09	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-14-5	1812739-08	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-1	1812739-06	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-2	1812739-05	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-3	1812739-04	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-4	1812739-03	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-5	1812739-02	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L

SDG: 18-12739

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-1-2Q18	1812739-10	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
Dup-1-2Q18	1812739-10	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-1-2Q18	1812739-10	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
Dup-1-2Q18	1812739-10	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
Dup-1-2Q18	1812739-10	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
Dup-1-2Q18	1812739-10	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
Dup-1-2Q18	1812739-10	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-1-2Q18	1812739-10	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-1-2Q18	1812739-10	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-1-2Q18	1812739-10	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
Dup-1-2Q18	1812739-10	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L

SDG: 18-12739

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-1-2Q18	1812739-10	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
Dup-1-2Q18	1812739-10	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
Dup-1-2Q18	1812739-10	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
Dup-1-2Q18	1812739-10	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
Dup-1-2Q18	1812739-10	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
Dup-1-2Q18	1812739-10	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
Dup-1-2Q18	1812739-10	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
Dup-1-2Q18	1812739-10	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
Dup-1-2Q18	1812739-10	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
Dup-1-2Q18	1812739-10	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
Dup-1-2Q18	1812739-10	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
Dup-1-2Q18	1812739-10	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
Dup-1-2Q18	1812739-10	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-1-2Q18	1812739-10	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
Dup-1-2Q18	1812739-10	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-1-2Q18	1812739-10	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
Dup-1-2Q18	1812739-10	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
Dup-1-2Q18	1812739-10	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
Dup-1-2Q18	1812739-10	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
Dup-1-2Q18	1812739-10	p-Isopropyltoluene	4/27/2018	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
Dup-1-2Q18	1812739-10	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
Dup-1-2Q18	1812739-10	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-1-2Q18	1812739-10	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
Dup-1-2Q18	1812739-10	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-1-2Q18	1812739-10	Chloroform	4/27/2018	0.16	Y	y	v j		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-1-2Q18	1812739-10	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
Dup-1-2Q18	1812739-10	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
Dup-1-2Q18	1812739-10	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-1-2Q18	1812739-10	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-1-2Q18	1812739-10	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-1-2Q18	1812739-10	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-1-2Q18	1812739-10	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-1-2Q18	1812739-10	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-1-2Q18	1812739-10	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-1-2Q18	1812739-10	cis-1,3-Dichloropropene	4/27/2018	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
Dup-1-2Q18	1812739-10	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-1-2Q18	1812739-10	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-1-2Q18	1812739-10	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-1-2Q18	1812739-10	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
EB-2-041918	1812739-07	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-2-041918	1812739-07	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
EB-2-041918	1812739-07	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-041918	1812739-07	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-041918	1812739-07	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Chlorobenzene	4/27/2018	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-2-041918	1812739-07	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-041918	1812739-07	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-2-041918	1812739-07	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-2-041918	1812739-07	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-041918	1812739-07	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-041918	1812739-07	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-041918	1812739-07	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
EB-2-041918	1812739-07	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
EB-2-041918	1812739-07	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-2-041918	1812739-07	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-041918	1812739-07	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
EB-2-041918	1812739-07	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
EB-2-041918	1812739-07	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-041918	1812739-07	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
EB-2-041918	1812739-07	t-Amyl Methyl ether	4/27/2018	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
EB-2-041918	1812739-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-041918	1812739-07	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-041918	1812739-07	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-041918	1812739-07	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-2-041918	1812739-07	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-2-041918	1812739-07	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
EB-2-041918	1812739-07	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-041918	1812739-07	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	2-Nitropropane	4/27/2018	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
EB-2-041918	1812739-07	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
EB-2-041918	1812739-07	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
EB-2-041918	1812739-07	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-041918	1812739-07	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-041918	1812739-07	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
EB-2-041918	1812739-07	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
EB-2-041918	1812739-07	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-2-041918	1812739-07	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-041918	1812739-07	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
EB-2-041918	1812739-07	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
EB-2-041918	1812739-07	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
EB-2-041918	1812739-07	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
EB-2-041918	1812739-07	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
EB-2-041918	1812739-07	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-2-041918	1812739-07	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
EB-2-041918	1812739-07	Tetrahydrofuran	4/27/2018	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
EB-2-041918	1812739-07	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-2-041918	1812739-07	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
EB-2-041918	1812739-07	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-2-041918	1812739-07	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1812739-09	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-4	1812739-09	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-4	1812739-09	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-4	1812739-09	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-4	1812739-09	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-14-4	1812739-09	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-4	1812739-09	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-4	1812739-09	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-4	1812739-09	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1812739-09	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1812739-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-4	1812739-09	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	1,2,4-Trichlorobenzene	4/27/2018	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-14-4	1812739-09	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1812739-09	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1812739-09	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-14-4	1812739-09	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-14-4	1812739-09	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-4	1812739-09	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-14-4	1812739-09	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-4	1812739-09	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-4	1812739-09	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-4	1812739-09	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-4	1812739-09	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-4	1812739-09	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-4	1812739-09	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-4	1812739-09	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1812739-09	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-4	1812739-09	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-4	1812739-09	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-4	1812739-09	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 18-12739

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-14-4	1812739-09	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1812739-09	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1812739-09	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1812739-09	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-4	1812739-09	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1812739-09	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1812739-09	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-4	1812739-09	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-4	1812739-09	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1812739-09	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1812739-09	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Chloroform	4/27/2018	0.18	Y	y	v j		0.50	0.14	ug/L
MW-14-4	1812739-09	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	1,1,1,2-Tetrachloroethane	4/27/2018	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-14-4	1812739-09	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1812739-09	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1812739-09	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1812739-09	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1812739-09	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1812739-09	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1812739-09	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1812739-09	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1812739-09	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-5	1812739-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-5	1812739-08	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	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-14-5	1812739-08	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-5	1812739-08	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-5	1812739-08	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-5	1812739-08	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-5	1812739-08	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-5	1812739-08	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1812739-08	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1812739-08	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-5	1812739-08	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1812739-08	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-5	1812739-08	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	Chloroacetonitrile	4/27/2018	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-14-5	1812739-08	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-5	1812739-08	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-5	1812739-08	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-5	1812739-08	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-14-5	1812739-08	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-5	1812739-08	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-5	1812739-08	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-5	1812739-08	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-5	1812739-08	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-5	1812739-08	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-5	1812739-08	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-5	1812739-08	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-5	1812739-08	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-5	1812739-08	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1812739-08	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1812739-08	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1812739-08	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1812739-08	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-5	1812739-08	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1812739-08	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-5	1812739-08	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	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-14-5	1812739-08	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1812739-08	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-5	1812739-08	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-5	1812739-08	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1812739-08	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1812739-08	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1812739-08	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1812739-08	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1812739-08	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1812739-08	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	1,1-Dichloroethene	4/27/2018	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
MW-14-5	1812739-08	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1812739-08	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1812739-06	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1812739-06	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1812739-06	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-1	1812739-06	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1812739-06	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-1	1812739-06	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1812739-06	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1812739-06	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1812739-06	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Chlorobenzene	4/27/2018	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-4-1	1812739-06	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1812739-06	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1812739-06	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-1	1812739-06	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-1	1812739-06	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1812739-06	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1812739-06	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-1	1812739-06	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-1	1812739-06	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-1	1812739-06	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-1	1812739-06	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-1	1812739-06	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-1	1812739-06	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-4-1	1812739-06	Vinyl chloride	4/27/2018	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-4-1	1812739-06	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-4-1	1812739-06	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-1	1812739-06	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-1	1812739-06	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-1	1812739-06	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1812739-06	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-1	1812739-06	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-1	1812739-06	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-1	1812739-06	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-1	1812739-06	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-1	1812739-06	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-1	1812739-06	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-1	1812739-06	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-1	1812739-06	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1812739-06	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-4-1	1812739-06	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-1	1812739-06	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1812739-06	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1812739-06	trans-1,3-Dichloropropene	4/27/2018	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
MW-4-1	1812739-06	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1812739-06	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1812739-06	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-4-1	1812739-06	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1812739-06	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1812739-06	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-1	1812739-06	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1812739-06	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1812739-06	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	1,1-Dichloroethene	4/27/2018	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
MW-4-2	1812739-05	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1812739-05	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1812739-05	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1812739-05	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1812739-05	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1812739-05	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1812739-05	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1812739-05	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-2	1812739-05	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-2	1812739-05	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Bromodichloromethane	4/27/2018	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-4-2	1812739-05	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1812739-05	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-2	1812739-05	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	Chloroform	4/27/2018	0.49	Y	y	v j		0.50	0.14	ug/L
MW-4-2	1812739-05	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1812739-05	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-2	1812739-05	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1812739-05	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-2	1812739-05	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-2	1812739-05	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-2	1812739-05	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-2	1812739-05	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-2	1812739-05	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1812739-05	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-2	1812739-05	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-2	1812739-05	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-2	1812739-05	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-2	1812739-05	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-2	1812739-05	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-2	1812739-05	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-2	1812739-05	1,1-Dichloropropanone	4/27/2018	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-4-2	1812739-05	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-2	1812739-05	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-2	1812739-05	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-2	1812739-05	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-2	1812739-05	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-2	1812739-05	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-4-2	1812739-05	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1812739-05	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1812739-05	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1812739-05	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-4-2	1812739-05	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1812739-05	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1812739-05	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	Tetrachloroethene	4/27/2018	0.32	Y	y	v j		0.50	0.23	ug/L
MW-4-2	1812739-05	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 18-12739

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-4-2	1812739-05	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1812739-05	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-2	1812739-05	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-2	1812739-05	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-4-2	1812739-05	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-2	1812739-05	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	Trichloroethene	4/27/2018	1.3	Y	y	v		0.50	0.19	ug/L
MW-4-2	1812739-05	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1812739-04	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1812739-04	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1812739-04	1,1-Dichloropropene	4/27/2018	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-4-3	1812739-04	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1812739-04	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1812739-04	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1812739-04	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1812739-04	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-3	1812739-04	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1812739-04	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1812739-04	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1812739-04	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-3	1812739-04	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-3	1812739-04	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Chloroform	4/27/2018	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-4-3	1812739-04	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1812739-04	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-3	1812739-04	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1812739-04	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-3	1812739-04	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1812739-04	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1812739-04	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1812739-04	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1812739-04	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-3	1812739-04	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-3	1812739-04	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-3	1812739-04	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-3	1812739-04	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-3	1812739-04	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-3	1812739-04	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-3	1812739-04	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-3	1812739-04	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1812739-04	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-3	1812739-04	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-4-3	1812739-04	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1812739-04	4-Bromofluorobenzene (Surrogate)	4/27/2018	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
MW-4-3	1812739-04	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-3	1812739-04	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-4-3	1812739-04	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-3	1812739-04	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	Tetrachloroethene	4/27/2018	0.25	Y	y	v j		0.50	0.23	ug/L
MW-4-3	1812739-04	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1812739-04	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	Trichloroethene	4/27/2018	0.9	Y	y	v		0.50	0.19	ug/L
MW-4-3	1812739-04	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-3	1812739-04	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1812739-04	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-3	1812739-04	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1812739-04	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-3	1812739-04	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-3	1812739-04	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	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-4-3	1812739-04	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1812739-04	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-3	1812739-04	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-4-3	1812739-04	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-4	1812739-03	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-4	1812739-03	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1812739-03	Trichloroethene	4/27/2018	0.44	Y	y	v j		0.50	0.19	ug/L
MW-4-4	1812739-03	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-4	1812739-03	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	1,2,3-Trichlorobenzene	4/27/2018	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-4-4	1812739-03	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1812739-03	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-4	1812739-03	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-4	1812739-03	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-4	1812739-03	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-4	1812739-03	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-4	1812739-03	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1812739-03	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-4	1812739-03	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-4	1812739-03	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-4	1812739-03	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-4	1812739-03	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1812739-03	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1812739-03	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-4	1812739-03	Dibromochloromethane	4/27/2018	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-4-4	1812739-03	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-4	1812739-03	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-4	1812739-03	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-4	1812739-03	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-4	1812739-03	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-4-4	1812739-03	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-4	1812739-03	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-4	1812739-03	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-4	1812739-03	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-4	1812739-03	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-4	1812739-03	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-4	1812739-03	Toluene-d8 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-4-4	1812739-03	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	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-4-4	1812739-03	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-4-4	1812739-03	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L	
MW-4-4	1812739-03	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-4-4	1812739-03	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L	
MW-4-4	1812739-03	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L	
MW-4-4	1812739-03	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-4-4	1812739-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-4-4	1812739-03	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-4-4	1812739-03	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L	
MW-4-4	1812739-03	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L	
MW-4-4	1812739-03	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L	
MW-4-4	1812739-03	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L	
MW-4-4	1812739-03	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L	
MW-4-4	1812739-03	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L	
MW-4-4	1812739-03	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L	
MW-4-4	1812739-03	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L	
MW-4-4	1812739-03	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L	
MW-4-4	1812739-03	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-4-4	1812739-03	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L	
MW-4-4	1812739-03	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-4-5	1812739-02	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L	
MW-4-5	1812739-02	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-4-5	1812739-02	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L	
MW-4-5	1812739-02	Styrene	4/27/2018	0.16	Y	y	v j		0.50	0.12	ug/L	
MW-4-5	1812739-02	n-Propylbenzene	4/27/2018	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-4-5	1812739-02	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-5	1812739-02	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-5	1812739-02	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-5	1812739-02	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-5	1812739-02	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-5	1812739-02	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1812739-02	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Trichloroethene	4/27/2018	0.26	Y	y	v j		0.50	0.19	ug/L
MW-4-5	1812739-02	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Acetone	4/27/2018	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-4-5	1812739-02	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1812739-02	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-5	1812739-02	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-4-5	1812739-02	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-5	1812739-02	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-5	1812739-02	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-5	1812739-02	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1812739-02	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1812739-02	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1812739-02	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1812739-02	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1812739-02	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Dichlorodifluoromethane	4/27/2018	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-4-5	1812739-02	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-5	1812739-02	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-5	1812739-02	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-5	1812739-02	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-5	1812739-02	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-5	1812739-02	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1812739-02	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-5	1812739-02	Ethylbenzene	4/27/2018	0.24	Y	y	v j		0.50	0.15	ug/L
MW-4-5	1812739-02	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-4-5	1812739-02	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-4-5	1812739-02	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-5	1812739-02	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-5	1812739-02	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-5	1812739-02	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-5	1812739-02	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-5	1812739-02	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Propionitrile	4/27/2018	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-4-5	1812739-02	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-5	1812739-02	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1812739-02	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-5	1812739-02	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-5	1812739-02	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-5	1812739-02	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-5	1812739-02	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-5	1812739-02	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-5	1812739-02	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-5	1812739-02	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-2-041918	1812739-01	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-041918	1812739-01	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-041918	1812739-01	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-041918	1812739-01	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-041918	1812739-01	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
TB-2-041918	1812739-01	Hexachlorobutadiene	4/27/2018	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
TB-2-041918	1812739-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
TB-2-041918	1812739-01	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-041918	1812739-01	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
TB-2-041918	1812739-01	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-041918	1812739-01	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
TB-2-041918	1812739-01	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-041918	1812739-01	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-041918	1812739-01	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-041918	1812739-01	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L

SDG: 18-12739

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-2-041918	1812739-01	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-2-041918	1812739-01	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-2-041918	1812739-01	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-2-041918	1812739-01	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-041918	1812739-01	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-041918	1812739-01	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-041918	1812739-01	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-041918	1812739-01	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-2-041918	1812739-01	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-041918	1812739-01	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
TB-2-041918	1812739-01	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
TB-2-041918	1812739-01	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-041918	1812739-01	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L

SDG: 18-12739

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-2-041918	1812739-01	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
TB-2-041918	1812739-01	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L	
TB-2-041918	1812739-01	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L	
TB-2-041918	1812739-01	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L	
TB-2-041918	1812739-01	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L	
TB-2-041918	1812739-01	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L	
TB-2-041918	1812739-01	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L	
TB-2-041918	1812739-01	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L	
TB-2-041918	1812739-01	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L	
TB-2-041918	1812739-01	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L	
TB-2-041918	1812739-01	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L	
TB-2-041918	1812739-01	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L	
TB-2-041918	1812739-01	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L	
TB-2-041918	1812739-01	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L	
TB-2-041918	1812739-01	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L	
TB-2-041918	1812739-01	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
TB-2-041918	1812739-01	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L	
TB-2-041918	1812739-01	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L	
TB-2-041918	1812739-01	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L	
TB-2-041918	1812739-01	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L	
TB-2-041918	1812739-01	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L	
TB-2-041918	1812739-01	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L	
TB-2-041918	1812739-01	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L	
TB-2-041918	1812739-01	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L	
TB-2-041918	1812739-01	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L	

SDG: 18-12739

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Hexavalent Chromium	4/19/2018	0.0028	Y	y	v		0.0020	0.0007	mg/L
EB-2-041918	1812739-07	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-14-4	1812739-09	Hexavalent Chromium	4/19/2018	0.0028	Y	y	v		0.0020	0.0007	mg/L
MW-14-5	1812739-08	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-1	1812739-06	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-2	1812739-05	Hexavalent Chromium	4/19/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
MW-4-3	1812739-04	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-4	1812739-03	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-5	1812739-02	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

<b>Analytical Method</b>		EPA-8270D									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-4-1	1812739-06	Naphthalene-d8 (Surrogate)	5/4/2018	42	Y	y	v s				ug/L
MW-4-1	1812739-06	1,4-Dioxane	5/4/2018	1	Y	n	u		1.0	0.10	ug/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Total Alkalinity as CaCO3	4/30/2018	160	Y	y	v		4.1	4.1	mg/L
Dup-1-2Q18	1812739-10	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
Dup-1-2Q18	1812739-10	Bicarbonate	4/30/2018	200	Y	y	v		5.0	5.0	mg/L
EB-2-041918	1812739-07	Bicarbonate	4/30/2018	5	Y	n	u		5.0	5.0	mg/L
EB-2-041918	1812739-07	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
EB-2-041918	1812739-07	Total Alkalinity as CaCO3	4/30/2018	4.1	Y	n	u		4.1	4.1	mg/L
MW-14-4	1812739-09	Total Alkalinity as CaCO3	4/30/2018	160	Y	y	v		4.1	4.1	mg/L
MW-14-4	1812739-09	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-14-4	1812739-09	Bicarbonate	4/30/2018	190	Y	y	v		5.0	5.0	mg/L

SDG: 18-12739

Analytical Method		SM-2320B									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1812739-08	Carbonate	4/30/2018	7.1	Y	y	v		2.5	2.5	mg/L
MW-14-5	1812739-08	Total Alkalinity as CaCO3	4/30/2018	140	Y	y	v		4.1	4.1	mg/L
MW-14-5	1812739-08	Bicarbonate	4/30/2018	150	Y	y	v		5.0	5.0	mg/L
MW-4-1	1812739-06	Total Alkalinity as CaCO3	4/30/2018	150	Y	y	v		4.1	4.1	mg/L
MW-4-1	1812739-06	Bicarbonate	4/30/2018	190	Y	y	v		5.0	5.0	mg/L
MW-4-1	1812739-06	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-4-2	1812739-05	Total Alkalinity as CaCO3	4/30/2018	230	Y	y	v		8.2	8.2	mg/L
MW-4-2	1812739-05	Carbonate	4/30/2018	5	Y	n	u		5.0	5.0	mg/L
MW-4-2	1812739-05	Bicarbonate	4/30/2018	280	Y	y	v		10	10	mg/L
MW-4-3	1812739-04	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-4-3	1812739-04	Total Alkalinity as CaCO3	4/30/2018	220	Y	y	v		4.1	4.1	mg/L
MW-4-3	1812739-04	Bicarbonate	4/30/2018	270	Y	y	v		5.0	5.0	mg/L
MW-4-4	1812739-03	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-4-4	1812739-03	Total Alkalinity as CaCO3	4/30/2018	220	Y	y	v		4.1	4.1	mg/L
MW-4-4	1812739-03	Bicarbonate	4/30/2018	260	Y	y	v		5.0	5.0	mg/L
MW-4-5	1812739-02	Bicarbonate	4/30/2018	230	Y	y	v		5.0	5.0	mg/L
MW-4-5	1812739-02	Total Alkalinity as CaCO3	4/30/2018	190	Y	y	v		4.1	4.1	mg/L
MW-4-5	1812739-02	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L



## NASA JPL, 2Q2018 - LDC# 42346A

SDG: 18-12598

Analytical Method		EPA-150.1										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
EB-1-041818	1812598-08	pH	4/26/2018	4.86	Y	y	v	J	0.05	0.05	pH Units	
MW-23-1	1812598-06	pH	4/26/2018	7.65	Y	y	v	J	0.05	0.05	pH Units	
MW-23-2	1812598-05	pH	4/26/2018	7.8	Y	y	v	J	0.05	0.05	pH Units	
MW-23-3	1812598-04	pH	4/26/2018	7.78	Y	y	v	J	0.05	0.05	pH Units	
MW-23-4	1812598-03	pH	4/26/2018	8.19	Y	y	v	J	0.05	0.05	pH Units	
MW-23-5	1812598-02	pH	4/26/2018	9.72	Y	y	v	J	0.05	0.05	pH Units	
MW-24-1	1812598-13	pH	4/26/2018	7.73	Y	y	v	J	0.05	0.05	pH Units	
MW-24-2	1812598-12	pH	4/26/2018	7.98	Y	y	v	J	0.05	0.05	pH Units	
MW-24-3	1812598-11	pH	4/26/2018	8.55	Y	y	v	J	0.05	0.05	pH Units	
MW-24-4	1812598-10	pH	4/26/2018	9.38	Y	y	v	J	0.05	0.05	pH Units	
MW-24-5	1812598-09	pH	4/26/2018	8.08	Y	y	v	J	0.05	0.05	pH Units	
SB-1-041818	1812598-07	pH	4/26/2018	4.77	Y	y	v	J	0.05	0.05	pH Units	

Analytical Method		EPA-160.1										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
EB-1-041818	1812598-08	Total Dissolved Solids @ 180 C	4/24/2018	6.7	Y	n	u		6.7	6.7	mg/L	
MW-23-1	1812598-06	Total Dissolved Solids @ 180 C	4/24/2018	880	Y	y	v		50	50	mg/L	
MW-23-2	1812598-05	Total Dissolved Solids @ 180 C	4/24/2018	740	Y	y	v		50	50	mg/L	
MW-23-3	1812598-04	Total Dissolved Solids @ 180 C	4/24/2018	370	Y	y	v		20	20	mg/L	
MW-23-4	1812598-03	Total Dissolved Solids @ 180 C	4/24/2018	260	Y	y	v		20	20	mg/L	
MW-23-5	1812598-02	Total Dissolved Solids @ 180 C	4/24/2018	270	Y	y	v		20	20	mg/L	
MW-24-1	1812598-13	Total Dissolved Solids @ 180 C	4/24/2018	490	Y	y	v		33	33	mg/L	
MW-24-2	1812598-12	Total Dissolved Solids @ 180 C	4/24/2018	430	Y	y	v		20	20	mg/L	
MW-24-3	1812598-11	Total Dissolved Solids @ 180 C	4/24/2018	230	Y	y	v		20	20	mg/L	

SDG: 18-12598

Analytical Method		EPA-160.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-4	1812598-10	Total Dissolved Solids @ 180 C	4/24/2018	130	Y	y	v		10	10	mg/L
MW-24-5	1812598-09	Total Dissolved Solids @ 180 C	4/24/2018	270	Y	y	v		20	20	mg/L
SB-1-041818	1812598-07	Total Dissolved Solids @ 180 C	4/24/2018	6.7	Y	n	u		6.7	6.7	mg/L

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-041818	1812598-08	Total Recoverable Iron	5/1/2018	50	Y	n	u		50	30	ug/L
EB-1-041818	1812598-08	Total Recoverable Potassium	5/1/2018	0.14	Y	y	v j		1.0	0.10	mg/L
EB-1-041818	1812598-08	Total Recoverable Magnesium	5/1/2018	0.05	Y	n	u		0.050	0.019	mg/L
EB-1-041818	1812598-08	Total Recoverable Calcium	5/1/2018	0.034	Y	y	v j	U	0.10	0.014	mg/L
EB-1-041818	1812598-08	Total Recoverable Sodium	5/2/2018	0.062	Y	y	v j	U	0.50	0.051	mg/L
MW-23-1	1812598-06	Total Recoverable Magnesium	5/1/2018	58	Y	y	v		0.050	0.019	mg/L
MW-23-1	1812598-06	Total Recoverable Potassium	5/1/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-23-1	1812598-06	Total Recoverable Iron	5/1/2018	200	Y	y	v		50	30	ug/L
MW-23-1	1812598-06	Total Recoverable Calcium	5/1/2018	170	Y	y	v		0.10	0.014	mg/L
MW-23-1	1812598-06	Total Recoverable Sodium	5/2/2018	38	Y	y	v		0.50	0.051	mg/L
MW-23-2	1812598-05	Total Recoverable Calcium	5/1/2018	140	Y	y	v		0.10	0.014	mg/L
MW-23-2	1812598-05	Total Recoverable Iron	5/1/2018	95	Y	y	v		50	30	ug/L
MW-23-2	1812598-05	Total Recoverable Magnesium	5/1/2018	52	Y	y	v		0.050	0.019	mg/L
MW-23-2	1812598-05	Total Recoverable Potassium	5/1/2018	3.1	Y	y	v		1.0	0.10	mg/L
MW-23-2	1812598-05	Total Recoverable Sodium	5/1/2018	43	Y	y	v		0.50	0.051	mg/L
MW-23-3	1812598-04	Total Recoverable Iron	5/1/2018	56	Y	y	v		50	30	ug/L
MW-23-3	1812598-04	Total Recoverable Calcium	5/4/2018	54	Y	y	v		0.10	0.014	mg/L
MW-23-3	1812598-04	Total Recoverable Potassium	5/4/2018	2.1	Y	y	v		1.0	0.10	mg/L
MW-23-3	1812598-04	Total Recoverable Magnesium	5/4/2018	18	Y	y	v		0.050	0.019	mg/L

SDG:

18-12598

**Analytical Method**

EPA-200.7

<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-23-3	1812598-04	Total Recoverable Sodium	5/4/2018	32	Y	y	v		0.50	0.051	mg/L
MW-23-4	1812598-03	Total Recoverable Iron	5/1/2018	210	Y	y	v		50	30	ug/L
MW-23-4	1812598-03	Total Recoverable Calcium	5/4/2018	35	Y	y	v		0.10	0.014	mg/L
MW-23-4	1812598-03	Total Recoverable Sodium	5/4/2018	30	Y	y	v		0.50	0.051	mg/L
MW-23-4	1812598-03	Total Recoverable Magnesium	5/4/2018	12	Y	y	v		0.050	0.019	mg/L
MW-23-4	1812598-03	Total Recoverable Potassium	5/4/2018	1.9	Y	y	v		1.0	0.10	mg/L
MW-23-5	1812598-02	Total Recoverable Iron	5/1/2018	80	Y	y	v		50	30	ug/L
MW-23-5	1812598-02	Total Recoverable Magnesium	5/4/2018	0.35	Y	y	v		0.050	0.019	mg/L
MW-23-5	1812598-02	Total Recoverable Calcium	5/4/2018	4.2	Y	y	v		0.10	0.014	mg/L
MW-23-5	1812598-02	Total Recoverable Potassium	5/4/2018	1.6	Y	y	v		1.0	0.10	mg/L
MW-23-5	1812598-02	Total Recoverable Sodium	5/4/2018	83	Y	y	v		0.50	0.051	mg/L
MW-24-1	1812598-13	Total Recoverable Calcium	5/1/2018	80	Y	y	v		0.10	0.014	mg/L
MW-24-1	1812598-13	Total Recoverable Iron	5/1/2018	680	Y	y	v		50	30	ug/L
MW-24-1	1812598-13	Total Recoverable Magnesium	5/1/2018	25	Y	y	v		0.050	0.019	mg/L
MW-24-1	1812598-13	Total Recoverable Potassium	5/1/2018	4.3	Y	y	v		1.0	0.10	mg/L
MW-24-1	1812598-13	Total Recoverable Sodium	5/2/2018	43	Y	y	v		0.50	0.051	mg/L
MW-24-2	1812598-12	Total Recoverable Potassium	5/1/2018	3.5	Y	y	v		1.0	0.10	mg/L
MW-24-2	1812598-12	Total Recoverable Iron	5/1/2018	40	Y	y	v j		50	30	ug/L
MW-24-2	1812598-12	Total Recoverable Calcium	5/1/2018	65	Y	y	v		0.10	0.014	mg/L
MW-24-2	1812598-12	Total Recoverable Magnesium	5/1/2018	21	Y	y	v		0.050	0.019	mg/L
MW-24-2	1812598-12	Total Recoverable Sodium	5/2/2018	47	Y	y	v		0.50	0.051	mg/L
MW-24-3	1812598-11	Total Recoverable Calcium	5/1/2018	14	Y	y	v		0.10	0.014	mg/L
MW-24-3	1812598-11	Total Recoverable Magnesium	5/1/2018	10	Y	y	v		0.050	0.019	mg/L
MW-24-3	1812598-11	Total Recoverable Potassium	5/1/2018	2.1	Y	y	v		1.0	0.10	mg/L
MW-24-3	1812598-11	Total Recoverable Iron	5/1/2018	130	Y	y	v		50	30	ug/L

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<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-24-3	1812598-11	Total Recoverable Sodium	5/2/2018	45	Y	y	v		0.50	0.051	mg/L
MW-24-4	1812598-10	Total Recoverable Calcium	5/1/2018	5.8	Y	y	v		0.10	0.014	mg/L
MW-24-4	1812598-10	Total Recoverable Magnesium	5/1/2018	4.2	Y	y	v		0.050	0.019	mg/L
MW-24-4	1812598-10	Total Recoverable Potassium	5/1/2018	1.5	Y	y	v		1.0	0.10	mg/L
MW-24-4	1812598-10	Total Recoverable Iron	5/1/2018	130	Y	y	v		50	30	ug/L
MW-24-4	1812598-10	Total Recoverable Sodium	5/2/2018	31	Y	y	v		0.50	0.051	mg/L
MW-24-5	1812598-09	Total Recoverable Iron	5/1/2018	480	Y	y	v		50	30	ug/L
MW-24-5	1812598-09	Total Recoverable Potassium	5/1/2018	1.9	Y	y	v		1.0	0.10	mg/L
MW-24-5	1812598-09	Total Recoverable Magnesium	5/1/2018	10	Y	y	v		0.050	0.019	mg/L
MW-24-5	1812598-09	Total Recoverable Calcium	5/1/2018	39	Y	y	v		0.10	0.014	mg/L
MW-24-5	1812598-09	Total Recoverable Sodium	5/2/2018	40	Y	y	v		0.50	0.051	mg/L
SB-1-041818	1812598-07	Total Recoverable Iron	5/1/2018	50	Y	n	u		50	30	ug/L
SB-1-041818	1812598-07	Total Recoverable Calcium	5/1/2018	0.1	Y	y	v	U	0.10	0.014	mg/L
SB-1-041818	1812598-07	Total Recoverable Potassium	5/1/2018	1	Y	n	u		1.0	0.10	mg/L
SB-1-041818	1812598-07	Total Recoverable Magnesium	5/1/2018	0.033	Y	y	v j	U	0.050	0.019	mg/L
SB-1-041818	1812598-07	Total Recoverable Sodium	5/2/2018	0.072	Y	y	v j	U	0.50	0.051	mg/L

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-1-041818	1812598-08	Total Recoverable Arsenic	4/24/2018	2	Y	n	u		2.0	0.70	ug/L
EB-1-041818	1812598-08	Total Recoverable Lead	4/24/2018	1	Y	n	u		1.0	0.10	ug/L
EB-1-041818	1812598-08	Total Recoverable Chromium	4/27/2018	0.73	Y	y	v j	U	3.0	0.50	ug/L
MW-23-1	1812598-06	Total Recoverable Arsenic	4/24/2018	2	Y	n	u		2.0	0.70	ug/L
MW-23-1	1812598-06	Total Recoverable Lead	4/24/2018	1	Y	n	u		1.0	0.10	ug/L
MW-23-1	1812598-06	Total Recoverable Chromium	4/27/2018	0.95	Y	y	v j	U	3.0	0.50	ug/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
MW-23-2	1812598-05	Total Recoverable Arsenic	4/24/2018	2	Y	n	u		2.0	0.70	ug/L
MW-23-2	1812598-05	Total Recoverable Lead	4/24/2018	1	Y	n	u		1.0	0.10	ug/L
MW-23-2	1812598-05	Total Recoverable Chromium	4/27/2018	1.1	Y	y	v j	U	3.0	0.50	ug/L
MW-23-3	1812598-04	Total Recoverable Lead	4/24/2018	1	Y	n	u		1.0	0.10	ug/L
MW-23-3	1812598-04	Total Recoverable Arsenic	4/24/2018	2	Y	n	u		2.0	0.70	ug/L
MW-23-3	1812598-04	Total Recoverable Chromium	4/27/2018	3.2	Y	y	v	U	3.0	0.50	ug/L
MW-23-4	1812598-03	Total Recoverable Arsenic	4/24/2018	2	Y	n	u		2.0	0.70	ug/L
MW-23-4	1812598-03	Total Recoverable Lead	4/24/2018	1	Y	n	u		1.0	0.10	ug/L
MW-23-4	1812598-03	Total Recoverable Chromium	4/27/2018	3	Y	y	v	U	3.0	0.50	ug/L
MW-23-5	1812598-02	Total Recoverable Arsenic	4/24/2018	1.7	Y	y	v j		2.0	0.70	ug/L
MW-23-5	1812598-02	Total Recoverable Lead	4/24/2018	0.2	Y	y	v j		1.0	0.10	ug/L
MW-23-5	1812598-02	Total Recoverable Chromium	4/27/2018	0.77	Y	y	v j	U	3.0	0.50	ug/L
MW-24-1	1812598-13	Total Recoverable Chromium	4/26/2018	1.7	Y	y	v j		3.0	0.50	ug/L
MW-24-1	1812598-13	Total Recoverable Lead	4/26/2018	1	Y	n	u		1.0	0.10	ug/L
MW-24-1	1812598-13	Total Recoverable Arsenic	4/26/2018	2	Y	n	u		2.0	0.70	ug/L
MW-24-2	1812598-12	Total Recoverable Arsenic	4/26/2018	2.3	Y	y	v		2.0	0.70	ug/L
MW-24-2	1812598-12	Total Recoverable Lead	4/26/2018	1	Y	n	u		1.0	0.10	ug/L
MW-24-2	1812598-12	Total Recoverable Chromium	4/26/2018	1.3	Y	y	v j		3.0	0.50	ug/L
MW-24-3	1812598-11	Total Recoverable Lead	4/26/2018	1	Y	n	u		1.0	0.10	ug/L
MW-24-3	1812598-11	Total Recoverable Chromium	4/26/2018	0.92	Y	y	v j		3.0	0.50	ug/L
MW-24-3	1812598-11	Total Recoverable Arsenic	4/26/2018	2.4	Y	y	v		2.0	0.70	ug/L
MW-24-4	1812598-10	Total Recoverable Lead	4/26/2018	1	Y	n	u		1.0	0.10	ug/L
MW-24-4	1812598-10	Total Recoverable Arsenic	4/26/2018	1.1	Y	y	v j		2.0	0.70	ug/L
MW-24-4	1812598-10	Total Recoverable Chromium	4/26/2018	0.75	Y	y	v j		3.0	0.50	ug/L
MW-24-5	1812598-09	Total Recoverable Lead	4/24/2018	0.17	Y	y	v j		1.0	0.10	ug/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
MW-24-5	1812598-09	Total Recoverable Arsenic	4/24/2018	1.7	Y	y	v j		2.0	0.70	ug/L
MW-24-5	1812598-09	Total Recoverable Chromium	4/27/2018	3.9	Y	y	v		3.0	0.50	ug/L
SB-1-041818	1812598-07	Total Recoverable Lead	4/24/2018	1	Y	n	u		1.0	0.10	ug/L
SB-1-041818	1812598-07	Total Recoverable Arsenic	4/24/2018	2	Y	n	u		2.0	0.70	ug/L
SB-1-041818	1812598-07	Total Recoverable Chromium	4/27/2018	0.91	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
EB-1-041818	1812598-08	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L
EB-1-041818	1812598-08	Sulfate	4/19/2018	1	Y	n	u		1.0	0.13	mg/L
EB-1-041818	1812598-08	Chloride	4/19/2018	0.13	Y	y	v j		0.50	0.077	mg/L
MW-23-1	1812598-06	Chloride	4/19/2018	130	Y	y	v		0.50	0.077	mg/L
MW-23-1	1812598-06	Nitrate as N	4/19/2018	13	Y	y	v		0.10	0.021	mg/L
MW-23-1	1812598-06	Sulfate	4/19/2018	200	Y	y	v		1.0	0.13	mg/L
MW-23-2	1812598-05	Nitrate as N	4/19/2018	13	Y	y	v		0.10	0.021	mg/L
MW-23-2	1812598-05	Chloride	4/19/2018	110	Y	y	v		0.50	0.077	mg/L
MW-23-2	1812598-05	Sulfate	4/19/2018	170	Y	y	v		1.0	0.13	mg/L
MW-23-3	1812598-04	Nitrate as N	4/19/2018	9.6	Y	y	v		0.10	0.021	mg/L
MW-23-3	1812598-04	Chloride	4/19/2018	39	Y	y	v		0.50	0.077	mg/L
MW-23-3	1812598-04	Sulfate	4/19/2018	32	Y	y	v		1.0	0.13	mg/L
MW-23-4	1812598-03	Nitrate as N	4/19/2018	4.7	Y	y	v		0.10	0.021	mg/L
MW-23-4	1812598-03	Sulfate	4/19/2018	9.8	Y	y	v		1.0	0.13	mg/L
MW-23-4	1812598-03	Chloride	4/19/2018	13	Y	y	v		0.50	0.077	mg/L
MW-23-5	1812598-02	Chloride	4/19/2018	9.1	Y	y	v		0.50	0.077	mg/L
MW-23-5	1812598-02	Sulfate	4/19/2018	0.71	Y	y	v j		1.0	0.13	mg/L

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<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-23-5	1812598-02	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-24-1	1812598-13	Nitrate as N	4/19/2018	1.6	Y	y	v		0.10	0.021	mg/L
MW-24-1	1812598-13	Sulfate	4/19/2018	55	Y	y	v		1.0	0.13	mg/L
MW-24-1	1812598-13	Chloride	4/19/2018	94	Y	y	v		0.50	0.077	mg/L
MW-24-2	1812598-12	Chloride	4/19/2018	66	Y	y	v		0.50	0.077	mg/L
MW-24-2	1812598-12	Sulfate	4/19/2018	44	Y	y	v		1.0	0.13	mg/L
MW-24-2	1812598-12	Nitrate as N	4/19/2018	2.4	Y	y	v		0.10	0.021	mg/L
MW-24-3	1812598-11	Chloride	4/19/2018	23	Y	y	v		0.50	0.077	mg/L
MW-24-3	1812598-11	Nitrate as N	4/19/2018	0.1	Y	y	v		0.10	0.021	mg/L
MW-24-3	1812598-11	Sulfate	4/19/2018	7.5	Y	y	v		1.0	0.13	mg/L
MW-24-4	1812598-10	Sulfate	4/19/2018	5.2	Y	y	v		1.0	0.13	mg/L
MW-24-4	1812598-10	Nitrate as N	4/19/2018	0.095	Y	y	v j		0.10	0.021	mg/L
MW-24-4	1812598-10	Chloride	4/19/2018	23	Y	y	v		0.50	0.077	mg/L
MW-24-5	1812598-09	Sulfate	4/19/2018	22	Y	y	v		1.0	0.13	mg/L
MW-24-5	1812598-09	Chloride	4/19/2018	8.8	Y	y	v		0.50	0.077	mg/L
MW-24-5	1812598-09	Nitrate as N	4/19/2018	1	Y	y	v		0.10	0.021	mg/L
SB-1-041818	1812598-07	Sulfate	4/19/2018	1	Y	n	u		1.0	0.13	mg/L
SB-1-041818	1812598-07	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L
SB-1-041818	1812598-07	Chloride	4/19/2018	0.12	Y	y	v j		0.50	0.077	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-1-041818	1812598-08	Perchlorate	5/5/2018	4	Y	n	u		4.0	0.58	ug/L
MW-23-1	1812598-06	Perchlorate	5/6/2018	3.4	Y	y	v j		4.0	0.58	ug/L
MW-23-2	1812598-05	Perchlorate	5/5/2018	3.5	Y	y	v j		4.0	0.58	ug/L

SDG: 18-12598

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-23-3	1812598-04	Perchlorate	5/5/2018	2.2	Y	y	v j		4.0	0.58	ug/L
MW-23-4	1812598-03	Perchlorate	5/6/2018	1.4	Y	y	v j		4.0	0.58	ug/L
MW-23-5	1812598-02	Perchlorate	5/5/2018	4	Y	n	u		4.0	0.58	ug/L
MW-24-1	1812598-13	Perchlorate	5/5/2018	36	Y	y	v		8.0	1.2	ug/L
MW-24-2	1812598-12	Perchlorate	5/5/2018	3.7	Y	y	v j		4.0	0.58	ug/L
MW-24-3	1812598-11	Perchlorate	5/5/2018	4	Y	n	u		4.0	0.58	ug/L
MW-24-4	1812598-10	Perchlorate	5/5/2018	4	Y	n	u		4.0	0.58	ug/L
MW-24-5	1812598-09	Perchlorate	5/5/2018	4	Y	n	u		4.0	0.58	ug/L
SB-1-041818	1812598-07	Perchlorate	5/5/2018	4	Y	n	u		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-1-041818	1812598-08	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-23-1	1812598-06	Nitrite as N	4/19/2018	0.033	Y	y	v j		0.050	0.010	mg/L
MW-23-2	1812598-05	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-23-3	1812598-04	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-23-4	1812598-03	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-23-5	1812598-02	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-24-1	1812598-13	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-24-2	1812598-12	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-24-3	1812598-11	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-24-4	1812598-10	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-24-5	1812598-09	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L
SB-1-041818	1812598-07	Nitrite as N	4/19/2018	0.05	Y	n	u		0.050	0.010	mg/L



SDG: 18-12598

<b>Analytical Method</b>		EPA-365.1									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-24-1	1812598-13	ortho-Phosphate as P	4/19/2018	0.05	Y	n	u		0.050	0.017	mg/L

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-1-041818	1812598-08	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
EB-1-041818	1812598-08	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-041818	1812598-08	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
EB-1-041818	1812598-08	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-1-041818	1812598-08	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
EB-1-041818	1812598-08	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-041818	1812598-08	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
EB-1-041818	1812598-08	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
EB-1-041818	1812598-08	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
EB-1-041818	1812598-08	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-1-041818	1812598-08	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
EB-1-041818	1812598-08	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-1-041818	1812598-08	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-041818	1812598-08	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
EB-1-041818	1812598-08	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-1-041818	1812598-08	2-Nitropropane	4/26/2018	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
EB-1-041818	1812598-08	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
EB-1-041818	1812598-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-041818	1812598-08	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-041818	1812598-08	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-041818	1812598-08	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-1-041818	1812598-08	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-041818	1812598-08	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
EB-1-041818	1812598-08	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-041818	1812598-08	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-1-041818	1812598-08	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-1-041818	1812598-08	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-1-041818	1812598-08	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-041818	1812598-08	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
EB-1-041818	1812598-08	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-041818	1812598-08	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-041818	1812598-08	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-041818	1812598-08	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-1-041818	1812598-08	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
EB-1-041818	1812598-08	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	Dichlorodifluoromethane	4/26/2018	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
EB-1-041818	1812598-08	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	4-Bromofluorobenzene (Surrogate)	4/26/2018	9.8	Y	y	v s				ug/L
EB-1-041818	1812598-08	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
EB-1-041818	1812598-08	Toluene-d8 (Surrogate)	4/26/2018	9.9	Y	y	v s				ug/L
EB-1-041818	1812598-08	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-041818	1812598-08	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-1-041818	1812598-08	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-1-041818	1812598-08	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-041818	1812598-08	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-041818	1812598-08	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-1-041818	1812598-08	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-1-041818	1812598-08	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-041818	1812598-08	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-041818	1812598-08	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-041818	1812598-08	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
EB-1-041818	1812598-08	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-041818	1812598-08	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
EB-1-041818	1812598-08	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-041818	1812598-08	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
EB-1-041818	1812598-08	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	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
EB-1-041818	1812598-08	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-1-041818	1812598-08	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
EB-1-041818	1812598-08	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-041818	1812598-08	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
EB-1-041818	1812598-08	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-1-041818	1812598-08	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-041818	1812598-08	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-041818	1812598-08	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-1-041818	1812598-08	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-041818	1812598-08	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-041818	1812598-08	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
EB-1-041818	1812598-08	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-041818	1812598-08	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-1-041818	1812598-08	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
EB-1-041818	1812598-08	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
EB-1-041818	1812598-08	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
MW-23-1	1812598-06	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1812598-06	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1812598-06	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1812598-06	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-1	1812598-06	Bromochloromethane	4/26/2018	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
MW-23-1	1812598-06	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1812598-06	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1812598-06	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1812598-06	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-1	1812598-06	Trichloroethene	4/26/2018	1.8	Y	y	v		0.50	0.19	ug/L
MW-23-1	1812598-06	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-1	1812598-06	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
MW-23-1	1812598-06	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1812598-06	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-1	1812598-06	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-1	1812598-06	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-1	1812598-06	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-1	1812598-06	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1812598-06	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1812598-06	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1812598-06	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
MW-23-1	1812598-06	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1812598-06	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
MW-23-1	1812598-06	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1812598-06	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-1	1812598-06	Isopropylbenzene	4/26/2018	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-23-1	1812598-06	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
MW-23-1	1812598-06	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1812598-06	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1812598-06	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1812598-06	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
MW-23-1	1812598-06	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1812598-06	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-1	1812598-06	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
MW-23-1	1812598-06	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1812598-06	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1812598-06	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
MW-23-1	1812598-06	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1812598-06	Tetrachloroethene	4/26/2018	0.26	Y	y	v j		0.50	0.23	ug/L
MW-23-1	1812598-06	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-1	1812598-06	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
MW-23-1	1812598-06	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1812598-06	Toluene-d8 (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-23-1	1812598-06	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1812598-06	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
MW-23-1	1812598-06	1,2,4-Trimethylbenzene	4/26/2018	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-23-1	1812598-06	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1812598-06	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-1	1812598-06	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1812598-06	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1812598-06	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1812598-06	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	9.9	Y	y	v s				ug/L
MW-23-1	1812598-06	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-1	1812598-06	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
MW-23-1	1812598-06	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1812598-06	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1812598-06	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
MW-23-1	1812598-06	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	Chloroform	4/26/2018	0.41	Y	y	v j		0.50	0.14	ug/L
MW-23-1	1812598-06	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-1	1812598-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1812598-06	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1812598-06	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1812598-06	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-1	1812598-06	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-1	1812598-06	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1812598-06	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1812598-06	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
MW-23-1	1812598-06	1,1-Dichloropropanone	4/26/2018	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-23-1	1812598-06	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1812598-06	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1812598-06	4-Bromofluorobenzene (Surrogate)	4/26/2018	11	Y	y	v s				ug/L
MW-23-1	1812598-06	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1812598-06	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1812598-06	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1812598-06	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-1	1812598-06	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
MW-23-1	1812598-06	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1812598-05	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1812598-05	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1812598-05	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-2	1812598-05	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
MW-23-2	1812598-05	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-2	1812598-05	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1812598-05	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1812598-05	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1812598-05	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1812598-05	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1812598-05	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	9.2	Y	y	v s				ug/L
MW-23-2	1812598-05	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-2	1812598-05	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
MW-23-2	1812598-05	1,2-Dichloroethane	4/26/2018	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-23-2	1812598-05	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1812598-05	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1812598-05	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
MW-23-2	1812598-05	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1812598-05	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1812598-05	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1812598-05	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
MW-23-2	1812598-05	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
MW-23-2	1812598-05	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-2	1812598-05	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1812598-05	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1812598-05	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1812598-05	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1812598-05	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
MW-23-2	1812598-05	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1812598-05	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-2	1812598-05	4-Bromofluorobenzene (Surrogate)	4/26/2018	9.7	Y	y	v s				ug/L
MW-23-2	1812598-05	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-2	1812598-05	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-2	1812598-05	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
MW-23-2	1812598-05	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	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	1812598-05	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-2	1812598-05	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1812598-05	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1812598-05	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1812598-05	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1812598-05	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1812598-05	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
MW-23-2	1812598-05	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1812598-05	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
MW-23-2	1812598-05	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-2	1812598-05	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
MW-23-2	1812598-05	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-2	1812598-05	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-2	1812598-05	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1812598-05	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-2	1812598-05	Chloroform	4/26/2018	0.42	Y	y	v j		0.50	0.14	ug/L
MW-23-2	1812598-05	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1812598-05	1,1-Dichloroethane	4/26/2018	0.16	Y	y	v j		0.50	0.15	ug/L
MW-23-2	1812598-05	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	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	1812598-05	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-2	1812598-05	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1812598-05	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1812598-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1812598-05	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1812598-05	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
MW-23-2	1812598-05	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
MW-23-2	1812598-05	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1812598-05	Tetrachloroethene	4/26/2018	0.4	Y	y	v j		0.50	0.23	ug/L
MW-23-2	1812598-05	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1812598-05	Toluene-d8 (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-23-2	1812598-05	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1812598-05	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-2	1812598-05	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1812598-05	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1812598-05	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1812598-05	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-2	1812598-05	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
MW-23-2	1812598-05	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-2	1812598-05	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1812598-05	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1812598-05	Trichloroethene	4/26/2018	1.1	Y	y	v		0.50	0.19	ug/L
MW-23-2	1812598-05	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1812598-04	Methyl acrylate	4/26/2018	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-23-3	1812598-04	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1812598-04	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-3	1812598-04	4-Bromofluorobenzene (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-23-3	1812598-04	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1812598-04	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-3	1812598-04	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-3	1812598-04	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
MW-23-3	1812598-04	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-3	1812598-04	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1812598-04	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1812598-04	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1812598-04	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1812598-04	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-3	1812598-04	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1812598-04	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-3	1812598-04	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-3	1812598-04	Hexachlorobutadiene	4/26/2018	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-23-3	1812598-04	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
MW-23-3	1812598-04	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
MW-23-3	1812598-04	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-3	1812598-04	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1812598-04	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1812598-04	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
MW-23-3	1812598-04	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1812598-04	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	9.5	Y	y	v s				ug/L
MW-23-3	1812598-04	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-3	1812598-04	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1812598-04	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1812598-04	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1812598-04	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-3	1812598-04	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1812598-04	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1812598-04	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-3	1812598-04	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1812598-04	Chloroacetonitrile	4/26/2018	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-23-3	1812598-04	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1812598-04	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
MW-23-3	1812598-04	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
MW-23-3	1812598-04	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
MW-23-3	1812598-04	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
MW-23-3	1812598-04	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1812598-04	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-3	1812598-04	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1812598-04	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1812598-04	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-3	1812598-04	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1812598-04	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1812598-04	Toluene-d8 (Surrogate)	4/26/2018	9.7	Y	y	v s				ug/L
MW-23-3	1812598-04	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1812598-04	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1812598-04	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1812598-04	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
MW-23-3	1812598-04	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1812598-04	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1812598-04	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-3	1812598-04	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-3	1812598-04	Methyl iodide	4/26/2018	2	Y	n	u	UJ	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
MW-23-3	1812598-04	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1812598-04	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1812598-04	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1812598-04	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
MW-23-3	1812598-04	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1812598-04	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
MW-23-3	1812598-04	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1812598-04	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1812598-04	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1812598-04	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1812598-04	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
MW-23-4	1812598-03	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
MW-23-4	1812598-03	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-4	1812598-03	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-4	1812598-03	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-4	1812598-03	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	9.7	Y	y	v s				ug/L
MW-23-4	1812598-03	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-4	1812598-03	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-4	1812598-03	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	Methyl t-butyl ether	4/26/2018	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-23-4	1812598-03	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-4	1812598-03	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-4	1812598-03	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-4	1812598-03	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
MW-23-4	1812598-03	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
MW-23-4	1812598-03	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-4	1812598-03	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-4	1812598-03	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-4	1812598-03	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-4	1812598-03	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
MW-23-4	1812598-03	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-4	1812598-03	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-4	1812598-03	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-4	1812598-03	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-4	1812598-03	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-4	1812598-03	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-4	1812598-03	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-4	1812598-03	Toluene-d8 (Surrogate)	4/26/2018	9.8	Y	y	v s				ug/L
MW-23-4	1812598-03	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	t-Amyl Methyl ether	4/26/2018	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-23-4	1812598-03	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-4	1812598-03	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
MW-23-4	1812598-03	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-4	1812598-03	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-4	1812598-03	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-4	1812598-03	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	4-Bromofluorobenzene (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-23-4	1812598-03	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
MW-23-4	1812598-03	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
MW-23-4	1812598-03	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
MW-23-4	1812598-03	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-4	1812598-03	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
MW-23-4	1812598-03	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
MW-23-4	1812598-03	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-4	1812598-03	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
MW-23-4	1812598-03	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-4	1812598-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-4	1812598-03	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	Methyl acrylate	4/26/2018	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-23-4	1812598-03	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-4	1812598-03	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-4	1812598-03	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-4	1812598-03	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-4	1812598-03	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-4	1812598-03	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-4	1812598-03	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-4	1812598-03	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-4	1812598-03	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-4	1812598-03	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-4	1812598-03	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
MW-23-4	1812598-03	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-4	1812598-03	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-4	1812598-03	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-4	1812598-03	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-4	1812598-03	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-4	1812598-03	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-4	1812598-03	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-4	1812598-03	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-4	1812598-03	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
MW-23-4	1812598-03	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-4	1812598-03	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-4	1812598-03	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-4	1812598-03	1,4-Dichlorobenzene	4/26/2018	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-23-4	1812598-03	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-23-4	1812598-03	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-23-4	1812598-03	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L	
MW-23-4	1812598-03	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-23-5	1812598-02	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L	
MW-23-5	1812598-02	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-23-5	1812598-02	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-23-5	1812598-02	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L	
MW-23-5	1812598-02	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-23-5	1812598-02	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L	
MW-23-5	1812598-02	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L	
MW-23-5	1812598-02	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L	
MW-23-5	1812598-02	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-23-5	1812598-02	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L	
MW-23-5	1812598-02	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L	
MW-23-5	1812598-02	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L	
MW-23-5	1812598-02	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L	
MW-23-5	1812598-02	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L	
MW-23-5	1812598-02	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-23-5	1812598-02	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L	
MW-23-5	1812598-02	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-23-5	1812598-02	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L	
MW-23-5	1812598-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-23-5	1812598-02	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-23-5	1812598-02	cis-1,3-Dichloropropene	4/26/2018	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-23-5	1812598-02	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-5	1812598-02	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-5	1812598-02	Toluene-d8 (Surrogate)	4/26/2018	9.7	Y	y	v s				ug/L
MW-23-5	1812598-02	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-5	1812598-02	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
MW-23-5	1812598-02	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-5	1812598-02	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
MW-23-5	1812598-02	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-5	1812598-02	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-5	1812598-02	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
MW-23-5	1812598-02	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-5	1812598-02	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-5	1812598-02	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-5	1812598-02	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-5	1812598-02	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-5	1812598-02	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-5	1812598-02	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-5	1812598-02	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-5	1812598-02	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	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-23-5	1812598-02	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-5	1812598-02	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
MW-23-5	1812598-02	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-5	1812598-02	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-5	1812598-02	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
MW-23-5	1812598-02	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-5	1812598-02	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-5	1812598-02	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-5	1812598-02	4-Bromofluorobenzene (Surrogate)	4/26/2018	9.7	Y	y	v s				ug/L
MW-23-5	1812598-02	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-5	1812598-02	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-5	1812598-02	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-5	1812598-02	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-5	1812598-02	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
MW-23-5	1812598-02	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-5	1812598-02	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-5	1812598-02	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-5	1812598-02	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-5	1812598-02	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-5	1812598-02	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-5	1812598-02	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-5	1812598-02	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	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-23-5	1812598-02	Styrene	4/26/2018	0.34	Y	y	v j		0.50	0.12	ug/L
MW-23-5	1812598-02	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-5	1812598-02	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-5	1812598-02	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-5	1812598-02	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-5	1812598-02	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-5	1812598-02	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-5	1812598-02	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
MW-23-5	1812598-02	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-5	1812598-02	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-5	1812598-02	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-5	1812598-02	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-5	1812598-02	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-23-5	1812598-02	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-5	1812598-02	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-5	1812598-02	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1812598-13	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-1	1812598-13	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1812598-13	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1812598-13	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-1	1812598-13	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	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	1812598-13	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1812598-13	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1812598-13	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-1	1812598-13	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1812598-13	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1812598-13	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-24-1	1812598-13	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1812598-13	Chloroform	4/27/2018	2.1	Y	y	v		0.50	0.14	ug/L
MW-24-1	1812598-13	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-1	1812598-13	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1812598-13	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1812598-13	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-24-1	1812598-13	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1812598-13	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-24-1	1812598-13	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1812598-13	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-1	1812598-13	Chloroacetonitrile	4/27/2018	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-24-1	1812598-13	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-1	1812598-13	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1812598-13	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1812598-13	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-1	1812598-13	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1812598-13	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-1	1812598-13	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-24-1	1812598-13	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-24-1	1812598-13	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-1	1812598-13	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-1	1812598-13	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1812598-13	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1812598-13	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1812598-13	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1812598-13	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1812598-13	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-1	1812598-13	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-1	1812598-13	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	Ethylbenzene	4/27/2018	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-24-1	1812598-13	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-1	1812598-13	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-24-1	1812598-13	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1812598-13	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1812598-13	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-24-1	1812598-13	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1812598-13	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1812598-13	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1812598-13	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-24-1	1812598-13	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-1	1812598-13	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-24-1	1812598-13	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-24-1	1812598-13	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-24-1	1812598-13	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1812598-13	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1812598-13	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-24-1	1812598-13	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-24-1	1812598-13	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1812598-13	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1812598-13	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1812598-13	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1812598-13	Dibromomethane	4/27/2018	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-24-1	1812598-13	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-1	1812598-13	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-1	1812598-13	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1812598-13	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-24-1	1812598-13	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-24-1	1812598-13	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1812598-13	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1812598-13	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-2	1812598-12	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1812598-12	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-2	1812598-12	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1812598-12	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1812598-12	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-24-2	1812598-12	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-2	1812598-12	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-2	1812598-12	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1812598-12	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-24-2	1812598-12	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-2	1812598-12	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1812598-12	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	Styrene	4/27/2018	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-24-2	1812598-12	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1812598-12	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1812598-12	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1812598-12	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-24-2	1812598-12	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-24-2	1812598-12	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-2	1812598-12	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-24-2	1812598-12	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-2	1812598-12	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-2	1812598-12	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-24-2	1812598-12	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1812598-12	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1812598-12	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-24-2	1812598-12	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-2	1812598-12	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-2	1812598-12	1,2,3-Trichlorobenzene	4/27/2018	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-24-2	1812598-12	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-2	1812598-12	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-2	1812598-12	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1812598-12	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-2	1812598-12	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1812598-12	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1812598-12	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1812598-12	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1812598-12	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-24-2	1812598-12	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1812598-12	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1812598-12	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-2	1812598-12	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-24-2	1812598-12	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-2	1812598-12	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1812598-12	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-2	1812598-12	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-24-2	1812598-12	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-2	1812598-12	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	Propionitrile	4/27/2018	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-24-2	1812598-12	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-24-2	1812598-12	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1812598-12	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-2	1812598-12	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-2	1812598-12	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-24-2	1812598-12	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1812598-12	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-2	1812598-12	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1812598-12	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1812598-12	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1812598-12	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1812598-12	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-2	1812598-12	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1812598-12	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1812598-12	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-2	1812598-12	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1812598-12	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-24-2	1812598-12	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1812598-12	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-2	1812598-12	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1812598-12	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1812598-12	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1812598-11	Toluene-d8 (Surrogate)	4/27/2018	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
MW-24-3	1812598-11	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-3	1812598-11	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-3	1812598-11	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-3	1812598-11	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-24-3	1812598-11	Carbon disulfide	4/27/2018	0.91	Y	y	v j		1.0	0.48	ug/L
MW-24-3	1812598-11	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1812598-11	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1812598-11	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-3	1812598-11	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1812598-11	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-24-3	1812598-11	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-3	1812598-11	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-24-3	1812598-11	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-3	1812598-11	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1812598-11	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-3	1812598-11	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-3	1812598-11	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-24-3	1812598-11	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	o-Xylene	4/27/2018	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
MW-24-3	1812598-11	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-3	1812598-11	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-24-3	1812598-11	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-3	1812598-11	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-24-3	1812598-11	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1812598-11	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-3	1812598-11	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-24-3	1812598-11	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-3	1812598-11	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1812598-11	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1812598-11	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1812598-11	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-24-3	1812598-11	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-3	1812598-11	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1812598-11	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1812598-11	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-24-3	1812598-11	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-24-3	1812598-11	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	Hexachlorobutadiene	4/27/2018	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	1812598-11	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1812598-11	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1812598-11	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1812598-11	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1812598-11	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1812598-11	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1812598-11	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1812598-11	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1812598-11	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1812598-11	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1812598-11	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1812598-11	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1812598-11	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1812598-11	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-3	1812598-11	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1812598-11	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-24-3	1812598-11	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1812598-11	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1812598-11	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-24-3	1812598-11	Chlorobenzene	4/27/2018	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-24-3	1812598-11	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1812598-11	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1812598-11	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1812598-11	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1812598-11	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1812598-11	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-3	1812598-11	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1812598-11	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-24-3	1812598-11	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1812598-11	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-3	1812598-11	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-24-3	1812598-11	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1812598-11	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-4	1812598-10	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-4	1812598-10	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-24-4	1812598-10	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-4	1812598-10	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1812598-10	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1812598-10	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-24-4	1812598-10	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1812598-10	Chloroethane	4/27/2018	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-24-4	1812598-10	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-24-4	1812598-10	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1812598-10	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-4	1812598-10	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-24-4	1812598-10	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-4	1812598-10	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-4	1812598-10	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1812598-10	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1812598-10	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-24-4	1812598-10	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-4	1812598-10	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-4	1812598-10	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-24-4	1812598-10	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-24-4	1812598-10	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-4	1812598-10	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-24-4	1812598-10	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-4	1812598-10	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-4	1812598-10	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1812598-10	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-24-4	1812598-10	2-Chlorotoluene	4/27/2018	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-24-4	1812598-10	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-4	1812598-10	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1812598-10	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-24-4	1812598-10	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1812598-10	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-24-4	1812598-10	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-4	1812598-10	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1812598-10	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-24-4	1812598-10	Styrene	4/27/2018	0.22	Y	y	v j		0.50	0.12	ug/L
MW-24-4	1812598-10	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-24-4	1812598-10	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1812598-10	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1812598-10	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-4	1812598-10	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-24-4	1812598-10	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-4	1812598-10	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-4	1812598-10	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-4	1812598-10	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1812598-10	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-4	1812598-10	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-4	1812598-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	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-24-4	1812598-10	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-4	1812598-10	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1812598-10	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-4	1812598-10	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-4	1812598-10	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-4	1812598-10	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1812598-10	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-4	1812598-10	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1812598-10	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-4	1812598-10	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1812598-10	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-4	1812598-10	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-4	1812598-10	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1812598-10	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-4	1812598-10	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-4	1812598-10	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-24-4	1812598-10	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1812598-10	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-4	1812598-10	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-4	1812598-10	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-4	1812598-10	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-24-4	1812598-10	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1812598-10	Bromochloromethane	4/27/2018	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
MW-24-4	1812598-10	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1812598-10	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-4	1812598-10	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-4	1812598-10	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-5	1812598-09	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-5	1812598-09	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-5	1812598-09	Toluene-d8 (Surrogate)	4/26/2018	9.9	Y	y	v s				ug/L
MW-24-5	1812598-09	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1812598-09	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-5	1812598-09	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1812598-09	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1812598-09	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1812598-09	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-5	1812598-09	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-5	1812598-09	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
MW-24-5	1812598-09	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
MW-24-5	1812598-09	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
MW-24-5	1812598-09	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	1,2-Dibromo-3-chloropropane	4/26/2018	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-24-5	1812598-09	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1812598-09	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-5	1812598-09	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1812598-09	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
MW-24-5	1812598-09	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
MW-24-5	1812598-09	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
MW-24-5	1812598-09	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-5	1812598-09	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
MW-24-5	1812598-09	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-5	1812598-09	4-Bromofluorobenzene (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-24-5	1812598-09	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-5	1812598-09	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1812598-09	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1812598-09	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-5	1812598-09	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-5	1812598-09	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-5	1812598-09	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-5	1812598-09	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
MW-24-5	1812598-09	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1812598-09	Methylene chloride	4/26/2018	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-24-5	1812598-09	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-5	1812598-09	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-5	1812598-09	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-5	1812598-09	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-5	1812598-09	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-5	1812598-09	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1812598-09	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-5	1812598-09	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
MW-24-5	1812598-09	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
MW-24-5	1812598-09	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1812598-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1812598-09	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-5	1812598-09	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-5	1812598-09	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
MW-24-5	1812598-09	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-5	1812598-09	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1812598-09	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-5	1812598-09	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-5	1812598-09	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
MW-24-5	1812598-09	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1812598-09	Propionitrile	4/26/2018	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-24-5	1812598-09	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-5	1812598-09	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
MW-24-5	1812598-09	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-5	1812598-09	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
MW-24-5	1812598-09	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-5	1812598-09	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-5	1812598-09	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1812598-09	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-5	1812598-09	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-5	1812598-09	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-5	1812598-09	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1812598-09	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-5	1812598-09	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-5	1812598-09	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-5	1812598-09	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
SB-1-041818	1812598-07	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-041818	1812598-07	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	Toluene-d8 (Surrogate)	4/26/2018	9.9	Y	y	v s				ug/L
SB-1-041818	1812598-07	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-041818	1812598-07	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	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
SB-1-041818	1812598-07	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-1-041818	1812598-07	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
SB-1-041818	1812598-07	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
SB-1-041818	1812598-07	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-041818	1812598-07	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
SB-1-041818	1812598-07	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-041818	1812598-07	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
SB-1-041818	1812598-07	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-041818	1812598-07	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-041818	1812598-07	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-041818	1812598-07	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-041818	1812598-07	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-041818	1812598-07	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-1-041818	1812598-07	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-041818	1812598-07	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
SB-1-041818	1812598-07	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
SB-1-041818	1812598-07	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-041818	1812598-07	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-1-041818	1812598-07	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-041818	1812598-07	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Dichlorodifluoromethane	4/26/2018	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
SB-1-041818	1812598-07	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-041818	1812598-07	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
SB-1-041818	1812598-07	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
SB-1-041818	1812598-07	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
SB-1-041818	1812598-07	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-041818	1812598-07	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-1-041818	1812598-07	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-041818	1812598-07	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-041818	1812598-07	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
SB-1-041818	1812598-07	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
SB-1-041818	1812598-07	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
SB-1-041818	1812598-07	4-Bromofluorobenzene (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
SB-1-041818	1812598-07	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-1-041818	1812598-07	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
SB-1-041818	1812598-07	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-041818	1812598-07	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
SB-1-041818	1812598-07	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-041818	1812598-07	trans-1,3-Dichloropropene	4/26/2018	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
SB-1-041818	1812598-07	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
SB-1-041818	1812598-07	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
SB-1-041818	1812598-07	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
SB-1-041818	1812598-07	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-041818	1812598-07	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-1-041818	1812598-07	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-1-041818	1812598-07	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-041818	1812598-07	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-041818	1812598-07	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
SB-1-041818	1812598-07	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-041818	1812598-07	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-041818	1812598-07	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-1-041818	1812598-07	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
SB-1-041818	1812598-07	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
SB-1-041818	1812598-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-041818	1812598-07	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
SB-1-041818	1812598-07	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
SB-1-041818	1812598-07	1,1-Dichloropropene	4/26/2018	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
SB-1-041818	1812598-07	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-041818	1812598-07	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
SB-1-041818	1812598-07	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-041818	1812598-07	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
SB-1-041818	1812598-07	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-041818	1812598-07	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
SB-1-041818	1812598-07	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
SB-1-041818	1812598-07	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-041818	1812598-07	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	Vinyl chloride	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-041818	1812598-01	Nitrobenzene	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	Dichlorodifluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	Diethyl ether	4/26/2018	2	Y	n	u		2.0	0.33	ug/L
TB-1-041818	1812598-01	n-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	trans-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	n-Propylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-1-041818	1812598-01	Hexachlorobutadiene	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-041818	1812598-01	trans-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-041818	1812598-01	Isopropylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	1,2-Dibromoethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-1-041818	1812598-01	Hexachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-041818	1812598-01	trans-1,4-Dichloro-2-butene	4/26/2018	5	Y	n	u		5.0	1.8	ug/L
TB-1-041818	1812598-01	Methacrylonitrile	4/26/2018	10	Y	n	u		10	2.3	ug/L
TB-1-041818	1812598-01	p- & m-Xylenes	4/26/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-1-041818	1812598-01	Pentachloroethane	4/26/2018	2	Y	n	u	UJ	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
TB-1-041818	1812598-01	1,2,3-Trichloropropane	4/26/2018	1	Y	n	u		1.0	0.78	ug/L
TB-1-041818	1812598-01	Methyl acrylate	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	Methylene chloride	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-041818	1812598-01	1,2,4-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	1,2-Dibromo-3-chloropropane	4/26/2018	1	Y	n	u		1.0	0.89	ug/L
TB-1-041818	1812598-01	1,1-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-041818	1812598-01	Methyl iodide	4/26/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-1-041818	1812598-01	Ethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	Methyl isobutyl ketone	4/26/2018	10	Y	n	u		10	2.4	ug/L
TB-1-041818	1812598-01	Ethyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-1-041818	1812598-01	1,2,3-Trichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-041818	1812598-01	1,2,4-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	p-Isopropyltoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	o-Xylene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-041818	1812598-01	Ethyl methacrylate	4/26/2018	4	Y	n	u		4.0	1.3	ug/L
TB-1-041818	1812598-01	Naphthalene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-1-041818	1812598-01	Methyl ethyl ketone	4/26/2018	10	Y	n	u		10	3.3	ug/L
TB-1-041818	1812598-01	1-Chlorobutane	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	2-Hexanone	4/26/2018	10	Y	n	u		10	5.0	ug/L
TB-1-041818	1812598-01	Acetone	4/26/2018	10	Y	n	u		10	6.6	ug/L
TB-1-041818	1812598-01	Allyl chloride	4/26/2018	5	Y	n	u		5.0	0.47	ug/L
TB-1-041818	1812598-01	Benzene	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-041818	1812598-01	2,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-041818	1812598-01	Bromobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	t-Amyl Methyl ether	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 18-12598

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-1-041818	1812598-01	Carbon disulfide	4/26/2018	1	Y	n	u		1.0	0.48	ug/L
TB-1-041818	1812598-01	Trichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-041818	1812598-01	4-Bromofluorobenzene (Surrogate)	4/26/2018	10	Y	y	v s				ug/L
TB-1-041818	1812598-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/26/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-041818	1812598-01	Bromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-041818	1812598-01	Bromodichloromethane	4/26/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-041818	1812598-01	Dibromomethane	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-1-041818	1812598-01	Bromoform	4/26/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-1-041818	1812598-01	Bromomethane	4/26/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-1-041818	1812598-01	1,3-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-041818	1812598-01	Toluene-d8 (Surrogate)	4/26/2018	9.9	Y	y	v s				ug/L
TB-1-041818	1812598-01	Toluene	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	Chloroform	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	Tetrahydrofuran	4/26/2018	20	Y	n	u		20	5.2	ug/L
TB-1-041818	1812598-01	1,1-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	Methyl methacrylate	4/26/2018	5	Y	n	u		5.0	1.2	ug/L
TB-1-041818	1812598-01	Chloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	Methyl t-butyl ether	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	Tetrachloroethene	4/26/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-1-041818	1812598-01	t-Butyl alcohol	4/26/2018	10	Y	n	u		10	9.4	ug/L
TB-1-041818	1812598-01	1,3,5-Trimethylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	4-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-1-041818	1812598-01	1,3-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-1-041818	1812598-01	Acrylonitrile	4/26/2018	5	Y	n	u		5.0	1.5	ug/L
TB-1-041818	1812598-01	2-Chlorotoluene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 18-12598

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-1-041818	1812598-01	tert-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-041818	1812598-01	1,1-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-041818	1812598-01	2-Nitropropane	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	1,1,2-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-041818	1812598-01	1,4-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	1,2-Dichloropropane	4/26/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-041818	1812598-01	1,1,1-Trichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-041818	1812598-01	Trichlorofluoromethane	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	Carbon tetrachloride	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	Dibromochloromethane	4/26/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-1-041818	1812598-01	1,2-Dichlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-041818	1812598-01	cis-1,2-Dichloroethene	4/26/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-041818	1812598-01	1,1,2,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	Chlorobenzene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	1,1,1,2-Tetrachloroethane	4/26/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-041818	1812598-01	Chloromethane	4/26/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-041818	1812598-01	Chloroacetonitrile	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	1,1-Dichloropropanone	4/26/2018	0	Y	y	v				ug/L
TB-1-041818	1812598-01	Styrene	4/26/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-1-041818	1812598-01	sec-Butylbenzene	4/26/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-041818	1812598-01	cis-1,3-Dichloropropene	4/26/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-041818	1812598-01	Propionitrile	4/26/2018	20	Y	n	u		20	6.2	ug/L
TB-1-041818	1812598-01	1,2-Dichloroethane	4/26/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-041818	1812598-01	1,2-Dichloroethane-d4 (Surrogate)	4/26/2018	9.8	Y	y	v s				ug/L

SDG: 18-12598

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-1-041818	1812598-08	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-23-1	1812598-06	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-23-2	1812598-05	Hexavalent Chromium	4/19/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-23-3	1812598-04	Hexavalent Chromium	4/19/2018	0.0032	Y	y	v		0.0020	0.0007	mg/L
MW-23-4	1812598-03	Hexavalent Chromium	4/19/2018	0.0039	Y	y	v		0.0020	0.0007	mg/L
MW-23-5	1812598-02	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-1	1812598-13	Hexavalent Chromium	4/18/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-2	1812598-12	Hexavalent Chromium	4/18/2018	0.0023	Y	y	v		0.0020	0.0007	mg/L
MW-24-3	1812598-11	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-4	1812598-10	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-5	1812598-09	Hexavalent Chromium	4/19/2018	0.0029	Y	y	v		0.0020	0.0007	mg/L
SB-1-041818	1812598-07	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

<b>Analytical Method</b>		EPA-8270D									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-24-1	1812598-13	1,4-Dioxane	5/4/2018	1	Y	n	u		1.0	0.10	ug/L
MW-24-1	1812598-13	Naphthalene-d8 (Surrogate)	5/4/2018	45	Y	y	v s				ug/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-1-041818	1812598-08	Total Alkalinity as CaCO3	4/26/2018	4.1	Y	n	u		4.1	4.1	mg/L
EB-1-041818	1812598-08	Bicarbonate	4/26/2018	5	Y	n	u		5.0	5.0	mg/L
EB-1-041818	1812598-08	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-23-1	1812598-06	Bicarbonate	4/26/2018	310	Y	y	v		10	10	mg/L
MW-23-1	1812598-06	Carbonate	4/26/2018	5	Y	n	u		5.0	5.0	mg/L
MW-23-1	1812598-06	Total Alkalinity as CaCO3	4/26/2018	250	Y	y	v		8.2	8.2	mg/L



SDG: 18-12598

Analytical Method		SM-2320B									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1812598-05	Bicarbonate	4/26/2018	290	Y	y	v		10	10	mg/L
MW-23-2	1812598-05	Carbonate	4/26/2018	5	Y	n	u		5.0	5.0	mg/L
MW-23-2	1812598-05	Total Alkalinity as CaCO3	4/26/2018	240	Y	y	v		8.2	8.2	mg/L
MW-23-3	1812598-04	Total Alkalinity as CaCO3	4/26/2018	140	Y	y	v		4.1	4.1	mg/L
MW-23-3	1812598-04	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-23-3	1812598-04	Bicarbonate	4/26/2018	170	Y	y	v		5.0	5.0	mg/L
MW-23-4	1812598-03	Bicarbonate	4/26/2018	170	Y	y	v		5.0	5.0	mg/L
MW-23-4	1812598-03	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-23-4	1812598-03	Total Alkalinity as CaCO3	4/26/2018	140	Y	y	v		4.1	4.1	mg/L
MW-23-5	1812598-02	Carbonate	4/26/2018	49	Y	y	v		2.5	2.5	mg/L
MW-23-5	1812598-02	Total Alkalinity as CaCO3	4/26/2018	150	Y	y	v		4.1	4.1	mg/L
MW-23-5	1812598-02	Bicarbonate	4/26/2018	89	Y	y	v		5.0	5.0	mg/L
MW-24-1	1812598-13	Total Alkalinity as CaCO3	4/26/2018	180	Y	y	v		4.1	4.1	mg/L
MW-24-1	1812598-13	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-24-1	1812598-13	Bicarbonate	4/26/2018	220	Y	y	v		5.0	5.0	mg/L
MW-24-2	1812598-12	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-24-2	1812598-12	Total Alkalinity as CaCO3	4/26/2018	200	Y	y	v		4.1	4.1	mg/L
MW-24-2	1812598-12	Bicarbonate	4/26/2018	240	Y	y	v		5.0	5.0	mg/L
MW-24-3	1812598-11	Carbonate	4/26/2018	6.2	Y	y	v		2.5	2.5	mg/L
MW-24-3	1812598-11	Bicarbonate	4/26/2018	140	Y	y	v		5.0	5.0	mg/L
MW-24-3	1812598-11	Total Alkalinity as CaCO3	4/26/2018	130	Y	y	v		4.1	4.1	mg/L
MW-24-4	1812598-10	Bicarbonate	4/26/2018	38	Y	y	v		5.0	5.0	mg/L
MW-24-4	1812598-10	Carbonate	4/26/2018	15	Y	y	v		2.5	2.5	mg/L
MW-24-4	1812598-10	Total Alkalinity as CaCO3	4/26/2018	57	Y	y	v		4.1	4.1	mg/L
MW-24-5	1812598-09	Total Alkalinity as CaCO3	4/26/2018	170	Y	y	v		4.1	4.1	mg/L

SDG: 18-12598

**Analytical Method** SM-2320B

<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-24-5	1812598-09	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-24-5	1812598-09	Bicarbonate	4/26/2018	210	Y	y	v		5.0	5.0	mg/L
SB-1-041818	1812598-07	Total Alkalinity as CaCO3	4/26/2018	4.1	Y	n	u		4.1	4.1	mg/L
SB-1-041818	1812598-07	Carbonate	4/26/2018	2.5	Y	n	u		2.5	2.5	mg/L
SB-1-041818	1812598-07	Bicarbonate	4/26/2018	5	Y	n	u		5.0	5.0	mg/L

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 13, 2018

**Parameters:** Volatiles

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12739

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-2-041918	1812739-01	Water	04/19/18
MW-4-5	1812739-02	Water	04/19/18
MW-4-4**	1812739-03**	Water	04/19/18
MW-4-3	1812739-04	Water	04/19/18
MW-4-2	1812739-05	Water	04/19/18
MW-4-1	1812739-06	Water	04/19/18
EB-2-041918	1812739-07	Water	04/19/18
MW-14-5	1812739-08	Water	04/19/18
MW-14-4	1812739-09	Water	04/19/18
Dup-1-2Q18	1812739-10	Water	04/19/18

\*\*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
04/27/18	Bromomethane Methyl iodide Pentachloroethane	76.5 67.9 82.5	All samples in SDG 18-12739	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

## 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-2-041918 was identified as a trip blank. No contaminants were found.

Sample EB-2-041918 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-14-4 and Dup-1-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-14-4	Dup-1-2Q18	
Chloroform	0.18	0.16	12

## 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 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, 2Q2018  
Volatiles - Data Qualification Summary - SDG 18-12739**

Sample	Compound	Flag	A or P	Reason
TB-2-041918 MW-4-5 MW-4-4** MW-4-3 MW-4-2 MW-4-1 EB-2-041918 MW-14-5 MW-14-4 Dup-1-2Q18	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

**NASA JPL, 2Q2018  
Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-12739**

No Sample Data Qualified in this SDG



LDC #: 42346B1

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: 18-12739

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 6/11/18

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	$RSD \leq 20\%$ , $r^2$ ICV $\leq 30\%$
IV.	Continuing calibration	SW	ccV $\leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1, EB = 7
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LC5
X.	Field duplicates	SW	$\Phi = 9 + 1 D$
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	TB-2-041918	1812739-01	Water	04/19/18
2	MW-4-5	1812739-02	Water	04/19/18
3	MW-4-4**	1812739-03**	Water	04/19/18
4	MW-4-3	1812739-04	Water	04/19/18
5	MW-4-2	1812739-05	Water	04/19/18
6	MW-4-1	1812739-06	Water	04/19/18
7	EB-2-041918	1812739-07	Water	04/19/18
8	MW-14-5	1812739-08	Water	04/19/18
9	MW-14-4	1812739-09	Water	04/19/18
10	Dup-1-2Q18	1812739-10	Water	04/19/18
11				
12				
13				

**Method:** Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
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"/>	
<b>II. GC/MS Instrument performance check</b>				
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"/>	
<b>III. Initial calibration</b>				
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"/>	
<b>IIIa. Initial Calibration Verification calibration</b>				
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"/>	
<b>IV. Continuing calibration</b>				
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"/>	
<b>V. Laboratory Blanks</b>				
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"/>	
<b>VI. Field blanks</b>				
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"/>	
<b>VII. Surrogate spikes</b>				
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"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
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"/>	
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LDC #: A2746B1

**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"/>	
<b>X. Field duplicates</b>				
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"/>	
<b>XI. Internal standards</b>				
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"/>	
<b>XII. Compound quantitation/CRQLs</b>				
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"/>	
<b>XIII. Target compound identification</b>				
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"/>	
<b>XIV. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>XV. Overall assessment of data</b>				
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	WWWW. 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

### 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".

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>4/26/18</u>	<u>226APR02</u>	<u>B</u>	<u>57.0</u>	<u>BK</u>	<u>N/A</u>
		<u>3</u>	<u>Methyl iodide</u>	<u>59.1</u>		<u>↓</u>
			<u>2222</u>	<u>40.6</u>		<u>↓</u>
	<u>4/27/18</u>	<u>26APR30</u>	<u>B</u>	<u>76.5</u>	<u>All (N/A)</u>	<u>N/A</u>
		<u>33</u>	<u>Methyl iodide</u>	<u>67.9</u>		<u>↓</u>
			<u>2222</u>	<u>80.5</u>		<u>↓</u>

LDC# 42346B1

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	9	10	
K	0.18	0.16	12

V:\FIELD DUPLICATES\Field Duplicates\FD\_Organics\2018\42346B1\_JPL.wpd

## 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)	3/27/18	V (1st internal standard)	1.798647	1.798647	1.760283	1.760283	6.339782	6.340
			S (2nd internal standard)	0.3328806	0.3328806	0.3476939	0.3476939	4.564263	4.564
			EE (3rd internal standard)	1.965132	1.9651323	1.884709	1.884709	8.916074	8.916
			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 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:

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

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

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	26APR02	4/26/18	V (1st internal standard)	1.760283	1.85087	1.85087	5.1	5.1
			S (2nd internal standard)	0.3476939	0.3363987	0.3363987	3.2	3.2
			EE (3rd internal standard)	1.884709	1.865921	1.865921	1.0	1.0
			HHH (4th internal standard)					
2	26APR32	4/27/18	V (1st internal standard)	1.760283	1.87944	1.87944	6.8	6.8
			S (2nd internal standard)	0.3476939	0.3965621	0.3965621	14.1	14.1
			EE (3rd internal standard)	1.884709	2.011466	2.011466	6.7	6.7
			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 #: 12346B

**VALIDATION FINDINGS WORKSHEET**  
**Surrogate Results Verification**

Page: 1 of 1  
Reviewer: [Signature]  
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: 3

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.79	97.9	97.9	0
Bromofluorobenzene	↓	9.93	99.3	99.3	↓
1,2-Dichlorobenzene-d4 <u>1,2-DCA</u>	↓	10.39	104	104	↓
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: B012017-BS1

Compound	Spike Added (µg/L)		Spiked Sample Concentration (µg/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	25.000	NA	26.630	NA	107	107				
Trichloroethene	↓	↓	25.310	↓	101	101				
Benzene	↓	↓	26.100	↓	104	104				
Toluene	↓	↓	25.620	↓	102	102				
Chlorobenzene	↓	↓	26.300	↓	105	105				

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, 2Q2018

**LDC Report Date:** June 13, 2018

**Parameters:** 1,4-Dioxane

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12598

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
MW-4-1	1812739-06	Water	04/19/18

## 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:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270C

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 not 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**

A decafluorotriphenylphosphine (DFTPP) tune was performed 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 15.0%.

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 20.0%.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

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

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## **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**

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.

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, 2Q2018**  
**1,4-Dioxane - Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**  
**1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 18-12598**

No Sample Data Qualified in this SDG



**METHOD:** GC/MS 1,4-Dioxane (EPA SW846 Method 8270C)

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 ≤ 15.70. $\gamma^2$ 1 CV ≤ 20%
IV.	Continuing calibration	A	CV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
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	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

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-4-1	1812739-06	Water	04/19/18
2				
3				
4				
5				
6				
7				
8				

Notes:


## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 18, 2018

**Parameters:** Metals

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12739

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-5	1812739-02	Water	04/19/18
MW-4-4**	1812739-03**	Water	04/19/18
MW-4-3	1812739-04	Water	04/19/18
MW-4-2	1812739-05	Water	04/19/18
MW-4-1	1812739-06	Water	04/19/18
EB-2-041918	1812739-07	Water	04/19/18
MW-14-5	1812739-08	Water	04/19/18
MW-14-4	1812739-09	Water	04/19/18
Dup-1-2Q18	1812739-10	Water	04/19/18
MW-4-5MS	1812739-02MS	Water	04/19/18
MW-4-5MSD	1812739-02MSD	Water	04/19/18
MW-4-5DUP	1812739-02DUP	Water	04/19/18
MW-4-4MS	1812739-03MS	Water	04/19/18
MW-4-4MSD	1812739-03MSD	Water	04/19/18
MW-4-4DUP	1812739-03DUP	Water	04/19/18

\*\*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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

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

## IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

## 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)	Iron Calcium Sodium	39.237 ug/L 0.064348 mg/L 0.17301 mg/L	All samples in SDG 18-12739
ICB/CCB	Arsenic	0.76600 ug/L	All samples in SDG 18-12739
ICB/CCB	Calcium Sodium	0.015635 mg/L 0.073935 mg/L	MW-4-3 MW-4-2 MW-4-1 EB-2-041918 MW-14-5 MW-14-4 Dup-1-2Q18
ICB/CCB	Calcium Sodium	0.016955 mg/L 0.15289 mg/L	MW-4-5 MW-4-4**

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	Iron	79 ug/L	79U ug/L
MW-4-1	Iron	35 ug/L	35U ug/L
MW-14-5	Iron Arsenic	110 ug/L 2.0 ug/L	110U ug/L 2.0U ug/L
MW-14-4	Iron Arsenic	39 ug/L 1.3 ug/L	39U ug/L 1.3U ug/L
Dup-1-2Q18	Iron Arsenic	38 ug/L 1.2 ug/L	38U ug/L 1.2U ug/L
EB-2-041918	Calcium Sodium	0.045 mg/L 0.099 mg/L	0.045U mg/L 0.099U mg/L

## VI. Field Blanks

Sample EB-2-041918 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-2-041918	Calcium Sodium	0.045 mg/L 0.099 mg/L

## 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 methods. Percent recoveries (%R) were within QC limits.

## XI. Field Duplicates

Samples MW-14-4 and Dup-1-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-14-4	Dup-1-2Q18	
Iron	39 ug/L	38 ug/L	3
Arsenic	1.3 ug/L	1.2 ug/L	8
Chromium	2.0 ug/L	3.7 ug/L	60
Calcium	70 mg/L	67 mg/L	4
Magnesium	26 mg/L	25 mg/L	4
Sodium	33 mg/L	31 mg/L	6
Potassium	2.5 mg/L	2.3 mg/L	8

## 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 methods. 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, 2Q2018  
Metals - Data Qualification Summary - SDG 18-12739**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018  
Metals - Laboratory Blank Data Qualification Summary - SDG 18-12739**

Sample	Analyte	Modified Final Concentration	A or P
MW-4-2	Iron	79U ug/L	A
MW-4-1	Iron	35U ug/L	A
MW-14-5	Iron Arsenic	110U ug/L 2.0U ug/L	A
MW-14-4	Iron Arsenic	39U ug/L 1.3U ug/L	A
Dup-1-2Q18	Iron Arsenic	38U ug/L 1.2U ug/L	A
EB-2-041918	Calcium Sodium	0.045U mg/L 0.099U mg/L	A



LDC #: 42346B4a

**VALIDATION COMPLETENESS WORKSHEET**

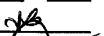
Date: 6/13/19

SDG #: 18-12739

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: **METHOD:** Metals (EPA Method 200.7/200.8)

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	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	
VII.	Matrix Spike/Matrix Spike Duplicates	A	(10, 11) (13, 14)
VIII.	Duplicate sample analysis	A	12, 15
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	
XII.	Internal Standard (ICP-MS)	A	
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-4-5	1812739-02	Water	04/19/18
2	MW-4-4**	1812739-03**	Water	04/19/18
3	MW-4-3	1812739-04	Water	04/19/18
4	MW-4-2	1812739-05	Water	04/19/18
5	MW-4-1	1812739-06	Water	04/19/18
6	EB-2-041918	1812739-07	Water	04/19/18
7	MW-14-5	1812739-08	Water	04/19/18
8	MW-14-4	1812739-09	Water	04/19/18
9	Dup-1-2Q18	1812739-10	Water	04/19/18
10	MW-4-5MS	1812739-02MS	Water	04/19/18
11	MW-4-5MSD	1812739-02MSD	Water	04/19/18
12	MW-4-5DUP	1812739-02DUP	Water	04/19/18
13	MW-4-4MS	1812739-03MS	Water	04/19/18
14	MW-4-4MSD	1812739-03MSD	Water	04/19/18
15	MW-4-4DUP	1812739-03DUP	Water	04/19/18

LDC #: 42346B4a

# VALIDATION COMPLETENESS WORKSHEET

Date: 6/13/19

SDG #: 18-12739

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** Metals (EPA Method 200.7/200.8)

	Client ID	Lab ID	Matrix	Date
16				
17				
18				
19				
20				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
<b>II. ICP/MS Tune</b>				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
<b>III. Calibration</b>				
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?			✓	
<b>IV. Blanks</b>				
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.	✓			
<b>V. ICP Interference Check Sample</b>				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
<b>VI. Matrix spike/Matrix spike duplicates</b>				
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.	✓			
<b>VII. Laboratory control samples</b>				
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
<b>VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)</b>				
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?			✓	
<b>IX. ICP Serial Dilution</b>				
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.		✓		
<b>X. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
<b>XI. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>XII. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>XIII. Field blanks</b>				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Element Reference**

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-9	W	Al, Sb, (As), Ba, Be, Cd, (Ca), (Cr), Co, Cu, (Fe), (Pb), (Mg), Mn, Hg, Ni, (K), Se, Ag, (Na), Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
QC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
10-12	W	Al, Sb, (As), Ba, Be, Cd, (Ca), (Cr), Co, Cu, (Fe), (Pb), Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
13-15	W	Al, Sb, As, Ba, Be, Cd, (Ca), Cr, Co, Cu, Fe, Pb, (Mg), Mn, Hg, Ni, (K), Se, Ag, (Na), Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		<b>Analysis Method</b>
ICP		Al, Sb, As, Ba, Be, Cd, (Ca), Cr, Co, Cu, (Fe), (Pb), (Mg), Mn, Hg, Ni, (K), Se, Ag, (Na), Ti, V, Zn, Mo, B, Sn, Ti, U,
ICP-MS		Al, Sb, (As), Ba, Be, Cd, (Ca), (Cr), Co, Cu, (Fe), (Pb), Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
GEAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,

Comments: Mercury by CVAA if performed

**VALIDATION FINDINGS WORKSHEET**  
**PB/ICB/CCB QUALIFIED SAMPLES**

**METHOD:** Trace metals (EPA SW 864 Method 6010B/6020/7000)  
 Sample Concentration units, unless otherwise noted: ug/L / mg/L

Soil preparation factor applied: NA  
 Associated Samples: ALL

Analyte	Maximum PB <sup>a</sup> (ug/l)	Maximum ICB/CCB <sup>a</sup> (ug/l)	Action Level	4	5	7	8	9				
Fe	39.237		196.185	79	35	110	39	38				
As		0.76600	3.83			2.0	1.3	1.2				
Ca (mg/L)	0.064348											
Na (mg/L)	0.17301											

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 3 - 9

Analyte	Maximum PB <sup>a</sup> (ug/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level	6								
Ca		0.015635	0.0782	0.045								
Na		0.073935	0.36968	0.099								

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1, 2

Analyte	Maximum PB <sup>a</sup> (ug/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
Ca		0.016955	0.0848									
Na		0.15289	0.76445									

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 #: 4234684a  
SDG #: 18-1239

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

Page: 1 of 1  
Reviewer: W.B.  
2nd reviewer: W.B.

**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 (mg/L)
Calcium	0.045
Sodium	0.099

**Sample:** \_\_\_\_\_ Field Blank / Trip Blank / Rinsate / Other \_\_\_\_\_ (circle one)

Analyte	Concentration Units ( )

LDC#: 42346B4a

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** Metals (EPA Method 6020A/7000)

Analyte	Concentration (ug/L)		RPD	
	8	9		
Iron	39	38	3	
Arsenic	1.3	1.2	8	
Chromium	2.0	3.7	60	
Calcium (mg/L)	70	67	4	
Magnesium (mg/L)	26	25	4	
Sodium (mg/L)	33	31	6	
Potassium (mg/L)	2.5	2.3	8	

V:\FIELD DUPLICATES\Field Duplicates\FD\_inorganic\2018\42346B4a.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)						
ICV	ICP (Initial calibration)	Fe	10.07 mg/L	10.000 mg/L	101.7%	101.7%	Y
ICV	ICP/MS (Initial calibration)	As	122.610 ug/L	125.00 ug/L	98.17%	98.17%	Y
	CVAA (Initial calibration)						
CCV <sub>y</sub>	ICP (Continuing calibration) 19:47	K	48.79 mg/L	50.000 mg/L	97.67%	97.67%	Y
CCV <sub>y</sub>	ICP/MS (Continuing calibration) 12:54	Cr	40.390 ug/L	40.000 ug/L	101.7%	101.7%	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	23.989	24.027	± 0.1 AMU	NA	Y
	%RSD	114.9	24148.7	≤ 5% RSD	1.37%	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	
IFB	ICP interference check	<del>Mg/Pb</del>	466.4 mg/L	500.00 mg/L	93.37	93.37	Y
LCS	Laboratory control sample	Na	10.63 mg/L	10.000 mg/L	1067	1067	Y
MS	Matrix spike	Pb	<sup>ND</sup> (SSR-SR) 99.275 ug/L	100.00 ug/L	99.37	99.37	Y
MSD	Duplicate	Pb	97.023 ug/L	Found: 99.275 ug/L	2.297	2.297	Y
PDS	Post digestion spike	Fe	4.254 mg/L	SR 3.374 SA 1.000 mg/L	94.77	94.77	Y
	ICP serial dilution						

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 14, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12739

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-5	1812739-02	Water	04/19/18
MW-4-4**	1812739-03**	Water	04/19/18
MW-4-3	1812739-04	Water	04/19/18
MW-4-2	1812739-05	Water	04/19/18
MW-4-1	1812739-06	Water	04/19/18
EB-2-041918	1812739-07	Water	04/19/18
MW-14-5	1812739-08	Water	04/19/18
MW-14-4	1812739-09	Water	04/19/18
Dup-1-2Q18	1812739-10	Water	04/19/18
MW-4-5DUP	1812739-02DUP	Water	04/19/18
MW-4-4MS	1812739-03MS	Water	04/19/18
MW-4-4MSD	1812739-03MSD	Water	04/19/18
MW-4-4DUP	1812739-03DUP	Water	04/19/18
MW-4-2DUP	1812739-05DUP	Water	04/19/18

\*\*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:

Alkalinity by Standard Method 2320B

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

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
MW-4-5 MW-4-4** MW-4-3 MW-4-2 MW-4-1 EB-2-041918 MW-14-5 MW-14-4 Dup-1-2Q18	pH	11 days	48 hours	J (all detects)	P

## 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-2-041918 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-2-041918	Chloride	0.084 mg/L

## 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-14-4 and Dup-1-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-14-4	Dup-1-2Q18	
Perchlorate	4.4 ug/L	3.0 ug/L	38
pH	8.16 units	8.06 units	1
Total dissolved solids	430 mg/L	430 mg/L	0
Chloride	54 mg/L	54 mg/L	0
Nitrate as N	11 mg/L	11 mg/L	0
Sulfate	55 mg/L	56 mg/L	2
Total alkalinity	160 mg/L	160 mg/L	0
Bicarbonate	190 mg/L	200 mg/L	5
Hexavalent chromium	0.0028 mg/L	0.0028 mg/L	0

## 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 technical holding time, 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, 2Q2018  
Wet Chemistry - Data Qualification Summary - SDG 18-12739**

Sample	Analyte	Flag	A or P	Reason
MW-4-5 MW-4-4** MW-4-3 MW-4-2 MW-4-1 EB-2-041918 MW-14-5 MW-14-4 Dup-1-2Q18	pH	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018  
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-12739**

No Sample Data Qualified in this SDG

LDC #: 42346B6

**VALIDATION COMPLETENESS WORKSHEET**

Date: 6/13/18

SDG #: 18-12739

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: 

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

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 SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	SW	EB=6
VI.	Matrix Spike/Matrix Spike Duplicates	A	(11,12)
VII.	Duplicate sample analysis	A	10, 13, 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  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinstate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

\*\* Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-4-5	1812739-02	Water	04/19/18
2	MW-4-4**	1812739-03**	Water	04/19/18
3	MW-4-3	1812739-04	Water	04/19/18
4	MW-4-2	1812739-05	Water	04/19/18
5	MW-4-1	1812739-06	Water	04/19/18
6	EB-2-041918	1812739-07	Water	04/19/18
7	MW-14-5	1812739-08	Water	04/19/18
8	MW-14-4	1812739-09	Water	04/19/18
9	Dup-1-2Q18	1812739-10	Water	04/19/18
10	MW-4-5DUP	1812739-02DUP	Water	04/19/18
11	MW-4-4MS	1812739-03MS	Water	04/19/18
12	MW-4-4MSD	1812739-03MSD	Water	04/19/18
13	MW-4-4DUP	1812739-03DUP	Water	04/19/18
14	MW-4-2DUP	1812739-05DUP	Water	04/19/18
15				
16				

Notes: \_\_\_\_\_

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
<b>II. Calibration</b>				
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)	✓			
<b>III. Blanks</b>				
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.		✓		
<b>IV. Matrix spike/Matrix spike duplicates and Duplicates</b>				
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.	✓			
<b>V. Laboratory control samples</b>				
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?	✓			
<b>VI. Regional Quality Assurance and Quality Control</b>				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 4234666

**VALIDATION FINDINGS CHECKLIST**

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

Validation Area	Yes	No	NA	Findings/Comments
<b>VII. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
<b>VIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>IX. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>X. Field blanks</b>				
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
1-109	<u>pH</u> TDS <u>Cl</u> F <u>NO<sub>3</sub></u> <u>NO<sub>2</sub></u> <u>SO<sub>4</sub></u> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC <u>Cr6+</u> <u>ClO<sub>4</sub></u>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
0e	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
10	<u>pH</u> TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> <u>Alk</u> CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
11,12	pH TDS <u>Cl</u> F <u>NO<sub>3</sub></u> <u>NO<sub>2</sub></u> <u>SO<sub>4</sub></u> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ <u>ClO<sub>4</sub></u>
13	pH TDS <u>Cl</u> F <u>NO<sub>3</sub></u> <u>NO<sub>2</sub></u> <u>SO<sub>4</sub></u> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ <u>ClO<sub>4</sub></u>
4	<u>pH</u> TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
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	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>

Comments:

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**VALIDATION FINDINGS WORKSHEET**  
**Technical Holding Times**

All circled dates have exceeded the technical holding time.  
 Y N N/A Were all samples preserved as applicable to each method?  
 Y N N/A Were all cooler temperatures within validation criteria?

Method:		EPA 150.1					
Parameters:		pH					
Technical holding time:		48 hours					
Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
1-9	4/19/10	4/30/10	11 days	J/WIP (Det)			

LDC #: 4234666  
SDG #: 13-12739

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

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

**METHOD:** Inorganics

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 (mg/L)
Chloride	0.084

**Sample:** \_\_\_\_\_ Field Blank / Trip Blank / Rinsate / Other \_\_\_\_\_ (circle one)

Analyte	Concentration Units ( )



**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

**Inorganics:** Method See Cover

Analyte	Concentration (mg/L)		RPD	
	8	9		
Perchlorate (ug/L)	4.4	3.0	38	
pH (pH Units)	8.16	8.06	1	
TDS	430	430	0	
Chloride	54	54	0	
Nitrate as N	11	11	0	
Sulfate	55	56	2	
Total Alkalinity	160	160	0	
Bicarbonate	190	200	5	
Hexavalent Chromium	0.0028	0.0028	0	

LDC #: \_\_\_\_\_

**Validation Findings Worksheet**  
**Initial and Continuing Calibration Calculation Verification**

Page: 1 of 1Reviewer: [Signature]2nd Reviewer: [Signature]Method: Inorganics, Method See CoverThe correlation coefficient (r) for the calibration of NO<sub>2</sub> was recalculated. Calibration date: 4/11/13

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 <sup>2</sup>	r or r <sup>2</sup>	
Initial calibration	NO <sub>2</sub>	s1	0	0.00752	0.999991	0.999991	Y
		s2	0.02	0.01762			
		s3	0.05	0.0331			
		s4	0.1	0.06019			
		s5	0.5	0.2743			
		s6	1	0.53869			
Calibration verification	ClO <sub>4</sub>	ICV	<u>Found</u> 9.3985ug/L	<u>True</u> 10.000ug/L	94.07.	95.97.	Y
Calibration verification	Cr <sup>6+</sup>	CCV <sub>2</sub>	<u>Found</u> 0.0520mg/L	<u>True</u> 0.050000mg/L	1047.	1052.	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 #: \_\_\_\_\_

## VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

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

**METHOD:** Inorganics, Method \_\_\_\_\_

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	TDS	585 mg/L	586.00 mg/L	99.8%	99.8%	Y
MS	Matrix spike sample	Cl	88.401 (SSR-SR) 136.23 - SR = 47.826 mg/L	50.505 mg/L	94.7%	95.5%	Y
MSD	Duplicate sample	Cl	136.217 mg/L	Found: 136.23 mg/L	0.010%	0.0126%	Y

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Sample Calculation Verification**

**METHOD:** Inorganics, Method See Copy

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 SO<sub>4</sub> reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation:

$$SO_4 = \frac{\sqrt{4ac + b^2} - b}{2a}$$

$a = 0.0001$   
 $b = 0.1886$   
 $c = \text{Area} - (-0.0289)$

$SO_4 \text{ Area} = 5.769$

$SO_4 = 30.254 \text{ mg/L}$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	<u>2</u>	<u>pH</u>	<u>8.16 pH units</u>	<u>8.16 pH units</u>	<u>Y</u>
		<u>TDS</u>	<u>470</u>	<u>470</u>	<u>Y</u>
		<u>SO<sub>4</sub></u>	<u>30</u>	<u>30</u>	<u>Y</u>
		<u>ClO<sub>4</sub></u>	<u>1.4 ug/L</u>	<u>1.3 ug/L</u>	<u>Y</u>
		<u>Al<sup>3+</sup></u>	<u>220</u>	<u>220</u>	<u>Y</u>

Note: \_\_\_\_\_

## NASA JPL, 2Q2018, LDC# 42346B

SDG: 18-12739

<b>Analytical Method</b>											
EPA-150.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	pH	4/30/2018	8.06	Y	y	v	J	0.05	0.05	pH Units
EB-2-041918	1812739-07	pH	4/30/2018	4.36	Y	y	v	J	0.05	0.05	pH Units
MW-14-4	1812739-09	pH	4/30/2018	8.16	Y	y	v	J	0.05	0.05	pH Units
MW-14-5	1812739-08	pH	4/30/2018	8.42	Y	y	v	J	0.05	0.05	pH Units
MW-4-1	1812739-06	pH	4/30/2018	7.51	Y	y	v	J	0.05	0.05	pH Units
MW-4-2	1812739-05	pH	4/30/2018	7.69	Y	y	v	J	0.05	0.05	pH Units
MW-4-3	1812739-04	pH	4/30/2018	8.01	Y	y	v	J	0.05	0.05	pH Units
MW-4-4	1812739-03	pH	4/30/2018	8.16	Y	y	v	J	0.05	0.05	pH Units
MW-4-5	1812739-02	pH	4/30/2018	8.04	Y	y	v	J	0.05	0.05	pH Units

<b>Analytical Method</b>											
EPA-160.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Total Dissolved Solids @ 180 C	4/25/2018	430	Y	y	v		33	33	mg/L
EB-2-041918	1812739-07	Total Dissolved Solids @ 180 C	4/25/2018	6.7	Y	n	u		6.7	6.7	mg/L
MW-14-4	1812739-09	Total Dissolved Solids @ 180 C	4/25/2018	430	Y	y	v		33	33	mg/L
MW-14-5	1812739-08	Total Dissolved Solids @ 180 C	4/25/2018	220	Y	y	v		20	20	mg/L
MW-4-1	1812739-06	Total Dissolved Solids @ 180 C	4/25/2018	280	Y	y	v		20	20	mg/L
MW-4-2	1812739-05	Total Dissolved Solids @ 180 C	4/25/2018	820	Y	y	v		50	50	mg/L
MW-4-3	1812739-04	Total Dissolved Solids @ 180 C	4/25/2018	640	Y	y	v		33	33	mg/L
MW-4-4	1812739-03	Total Dissolved Solids @ 180 C	4/25/2018	470	Y	y	v		33	33	mg/L
MW-4-5	1812739-02	Total Dissolved Solids @ 180 C	4/25/2018	310	Y	y	v		20	20	mg/L

<b>Analytical Method</b>											
EPA-200.7											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Total Recoverable Potassium	5/2/2018	2.3	Y	y	v		1.0	0.10	mg/L

SDG: 18-12739

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	Total Recoverable Calcium	5/2/2018	67	Y	y	v		0.10	0.014	mg/L
Dup-1-2Q18	1812739-10	Total Recoverable Magnesium	5/2/2018	25	Y	y	v		0.050	0.019	mg/L
Dup-1-2Q18	1812739-10	Total Recoverable Iron	5/2/2018	38	Y	y	v j	U	50	30	ug/L
Dup-1-2Q18	1812739-10	Total Recoverable Sodium	5/2/2018	31	Y	y	v		0.50	0.051	mg/L
EB-2-041918	1812739-07	Total Recoverable Iron	5/2/2018	50	Y	n	u		50	30	ug/L
EB-2-041918	1812739-07	Total Recoverable Calcium	5/2/2018	0.045	Y	y	v j	U	0.10	0.014	mg/L
EB-2-041918	1812739-07	Total Recoverable Potassium	5/2/2018	1	Y	n	u		1.0	0.10	mg/L
EB-2-041918	1812739-07	Total Recoverable Magnesium	5/2/2018	0.05	Y	n	u		0.050	0.019	mg/L
EB-2-041918	1812739-07	Total Recoverable Sodium	5/2/2018	0.099	Y	y	v j	U	0.50	0.051	mg/L
MW-14-4	1812739-09	Total Recoverable Magnesium	5/2/2018	26	Y	y	v		0.050	0.019	mg/L
MW-14-4	1812739-09	Total Recoverable Potassium	5/2/2018	2.5	Y	y	v		1.0	0.10	mg/L
MW-14-4	1812739-09	Total Recoverable Iron	5/2/2018	39	Y	y	v j	U	50	30	ug/L
MW-14-4	1812739-09	Total Recoverable Calcium	5/2/2018	70	Y	y	v		0.10	0.014	mg/L
MW-14-4	1812739-09	Total Recoverable Sodium	5/2/2018	33	Y	y	v		0.50	0.051	mg/L
MW-14-5	1812739-08	Total Recoverable Calcium	5/2/2018	19	Y	y	v		0.10	0.014	mg/L
MW-14-5	1812739-08	Total Recoverable Magnesium	5/2/2018	13	Y	y	v		0.050	0.019	mg/L
MW-14-5	1812739-08	Total Recoverable Sodium	5/2/2018	33	Y	y	v		0.50	0.051	mg/L
MW-14-5	1812739-08	Total Recoverable Potassium	5/2/2018	2.1	Y	y	v		1.0	0.10	mg/L
MW-14-5	1812739-08	Total Recoverable Iron	5/2/2018	110	Y	y	v	U	50	30	ug/L
MW-4-1	1812739-06	Total Recoverable Magnesium	5/2/2018	15	Y	y	v		0.050	0.019	mg/L
MW-4-1	1812739-06	Total Recoverable Iron	5/2/2018	35	Y	y	v j	U	50	30	ug/L
MW-4-1	1812739-06	Total Recoverable Potassium	5/2/2018	2.7	Y	y	v		1.0	0.10	mg/L
MW-4-1	1812739-06	Total Recoverable Calcium	5/2/2018	45	Y	y	v		0.10	0.014	mg/L
MW-4-1	1812739-06	Total Recoverable Sodium	5/2/2018	16	Y	y	v		0.50	0.051	mg/L
MW-4-2	1812739-05	Total Recoverable Calcium	5/2/2018	150	Y	y	v		0.10	0.014	mg/L

SDG: 18-12739

<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-4-2	1812739-05	Total Recoverable Sodium	5/2/2018	38	Y	y	v		0.50	0.051	mg/L
MW-4-2	1812739-05	Total Recoverable Potassium	5/2/2018	3.4	Y	y	v		1.0	0.10	mg/L
MW-4-2	1812739-05	Total Recoverable Iron	5/2/2018	79	Y	y	v	U	50	30	ug/L
MW-4-2	1812739-05	Total Recoverable Magnesium	5/2/2018	51	Y	y	v		0.050	0.019	mg/L
MW-4-3	1812739-04	Total Recoverable Magnesium	5/2/2018	46	Y	y	v		0.050	0.019	mg/L
MW-4-3	1812739-04	Total Recoverable Sodium	5/2/2018	36	Y	y	v		0.50	0.051	mg/L
MW-4-3	1812739-04	Total Recoverable Potassium	5/2/2018	3.1	Y	y	v		1.0	0.10	mg/L
MW-4-3	1812739-04	Total Recoverable Calcium	5/2/2018	97	Y	y	v		0.10	0.014	mg/L
MW-4-3	1812739-04	Total Recoverable Iron	5/2/2018	2500	Y	y	v		50	30	ug/L
MW-4-4	1812739-03	Total Recoverable Magnesium	5/2/2018	33	Y	y	v		0.050	0.019	mg/L
MW-4-4	1812739-03	Total Recoverable Potassium	5/2/2018	2.8	Y	y	v		1.0	0.10	mg/L
MW-4-4	1812739-03	Total Recoverable Iron	5/2/2018	3400	Y	y	v		50	30	ug/L
MW-4-4	1812739-03	Total Recoverable Sodium	5/2/2018	37	Y	y	v		0.50	0.051	mg/L
MW-4-4	1812739-03	Total Recoverable Calcium	5/2/2018	61	Y	y	v		0.10	0.014	mg/L
MW-4-5	1812739-02	Total Recoverable Potassium	5/2/2018	2.5	Y	y	v		1.0	0.10	mg/L
MW-4-5	1812739-02	Total Recoverable Iron	5/2/2018	3000	Y	y	v		50	30	ug/L
MW-4-5	1812739-02	Total Recoverable Sodium	5/2/2018	40	Y	y	v		0.50	0.051	mg/L
MW-4-5	1812739-02	Total Recoverable Calcium	5/2/2018	34	Y	y	v		0.10	0.014	mg/L
MW-4-5	1812739-02	Total Recoverable Magnesium	5/2/2018	26	Y	y	v		0.050	0.019	mg/L

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Total Recoverable Chromium	4/27/2018	3.7	Y	y	v		3.0	0.50	ug/L
Dup-1-2Q18	1812739-10	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
Dup-1-2Q18	1812739-10	Total Recoverable Arsenic	4/27/2018	1.2	Y	y	v j	U	2.0	0.70	ug/L

SDG: 18-12739

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-2-041918	1812739-07	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
EB-2-041918	1812739-07	Total Recoverable Chromium	4/27/2018	3	Y	n	u		3.0	0.50	ug/L
EB-2-041918	1812739-07	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-4	1812739-09	Total Recoverable Arsenic	4/27/2018	1.3	Y	y	v j	U	2.0	0.70	ug/L
MW-14-4	1812739-09	Total Recoverable Chromium	4/27/2018	2	Y	y	v j		3.0	0.50	ug/L
MW-14-4	1812739-09	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-5	1812739-08	Total Recoverable Chromium	4/27/2018	0.74	Y	y	v j		3.0	0.50	ug/L
MW-14-5	1812739-08	Total Recoverable Arsenic	4/27/2018	2	Y	y	v	U	2.0	0.70	ug/L
MW-14-5	1812739-08	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-1	1812739-06	Total Recoverable Chromium	4/27/2018	3	Y	n	u		3.0	0.50	ug/L
MW-4-1	1812739-06	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-1	1812739-06	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-2	1812739-05	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-2	1812739-05	Total Recoverable Chromium	4/27/2018	1.9	Y	y	v j		3.0	0.50	ug/L
MW-4-2	1812739-05	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-3	1812739-04	Total Recoverable Chromium	4/27/2018	2.8	Y	y	v j		3.0	0.50	ug/L
MW-4-3	1812739-04	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-3	1812739-04	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-4	1812739-03	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-4	1812739-03	Total Recoverable Chromium	4/27/2018	0.58	Y	y	v j		3.0	0.50	ug/L
MW-4-4	1812739-03	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L
MW-4-5	1812739-02	Total Recoverable Lead	4/27/2018	1	Y	n	u		1.0	0.10	ug/L
MW-4-5	1812739-02	Total Recoverable Chromium	4/27/2018	0.67	Y	y	v j		3.0	0.50	ug/L
MW-4-5	1812739-02	Total Recoverable Arsenic	4/27/2018	2	Y	n	u		2.0	0.70	ug/L



SDG: 18-12739

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-2Q18	1812739-10	Chloride	4/20/2018	54	Y	y	v		0.50	0.077	mg/L
Dup-1-2Q18	1812739-10	Nitrate as N	4/20/2018	11	Y	y	v		0.10	0.021	mg/L
Dup-1-2Q18	1812739-10	Sulfate	4/20/2018	56	Y	y	v		1.0	0.13	mg/L
EB-2-041918	1812739-07	Sulfate	4/20/2018	1	Y	n	u		1.0	0.13	mg/L
EB-2-041918	1812739-07	Nitrate as N	4/20/2018	0.1	Y	n	u		0.10	0.021	mg/L
EB-2-041918	1812739-07	Chloride	4/20/2018	0.084	Y	y	v j		0.50	0.077	mg/L
MW-14-4	1812739-09	Sulfate	4/20/2018	55	Y	y	v		1.0	0.13	mg/L
MW-14-4	1812739-09	Nitrate as N	4/20/2018	11	Y	y	v		0.10	0.021	mg/L
MW-14-4	1812739-09	Chloride	4/20/2018	54	Y	y	v		0.50	0.077	mg/L
MW-14-5	1812739-08	Chloride	4/20/2018	9.3	Y	y	v		0.50	0.077	mg/L
MW-14-5	1812739-08	Nitrate as N	4/20/2018	0.12	Y	y	v		0.10	0.021	mg/L
MW-14-5	1812739-08	Sulfate	4/20/2018	16	Y	y	v		1.0	0.13	mg/L
MW-4-1	1812739-06	Nitrate as N	4/20/2018	0.76	Y	y	v		0.10	0.021	mg/L
MW-4-1	1812739-06	Chloride	4/20/2018	12	Y	y	v		0.50	0.077	mg/L
MW-4-1	1812739-06	Sulfate	4/20/2018	29	Y	y	v		1.0	0.13	mg/L
MW-4-2	1812739-05	Sulfate	4/20/2018	170	Y	y	v		1.0	0.13	mg/L
MW-4-2	1812739-05	Nitrate as N	4/20/2018	12	Y	y	v		0.10	0.021	mg/L
MW-4-2	1812739-05	Chloride	4/20/2018	120	Y	y	v		0.50	0.077	mg/L
MW-4-3	1812739-04	Sulfate	4/20/2018	130	Y	y	v		1.0	0.13	mg/L
MW-4-3	1812739-04	Nitrate as N	4/20/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-4-3	1812739-04	Chloride	4/20/2018	110	Y	y	v		0.50	0.077	mg/L
MW-4-4	1812739-03	Sulfate	4/19/2018	30	Y	y	v		1.0	0.13	mg/L
MW-4-4	1812739-03	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-4-4	1812739-03	Chloride	4/19/2018	88	Y	y	v		0.50	0.077	mg/L
MW-4-5	1812739-02	Nitrate as N	4/19/2018	0.1	Y	n	u		0.10	0.021	mg/L

SDG: 18-12739

<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-4-5	1812739-02	Chloride	4/19/2018	59	Y	y	v		0.50	0.077	mg/L
MW-4-5	1812739-02	Sulfate	4/19/2018	0.27	Y	y	v j		1.0	0.13	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Perchlorate	5/7/2018	3	Y	y	v j		4.0	0.58	ug/L
EB-2-041918	1812739-07	Perchlorate	5/7/2018	4	Y	n	u		4.0	0.58	ug/L
MW-14-4	1812739-09	Perchlorate	5/7/2018	4.4	Y	y	v		4.0	0.58	ug/L
MW-14-5	1812739-08	Perchlorate	5/8/2018	4	Y	n	u		4.0	0.58	ug/L
MW-4-1	1812739-06	Perchlorate	5/7/2018	0.59	Y	y	v j		4.0	0.58	ug/L
MW-4-2	1812739-05	Perchlorate	5/7/2018	6.5	Y	y	v		4.0	0.58	ug/L
MW-4-3	1812739-04	Perchlorate	5/7/2018	4	Y	n	u		4.0	0.58	ug/L
MW-4-4	1812739-03	Perchlorate	5/7/2018	1.4	Y	y	v j		4.0	0.58	ug/L
MW-4-5	1812739-02	Perchlorate	5/7/2018	4	Y	n	u		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
EB-2-041918	1812739-07	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-14-4	1812739-09	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-14-5	1812739-08	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-1	1812739-06	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-2	1812739-05	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-3	1812739-04	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-4	1812739-03	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-4-5	1812739-02	Nitrite as N	4/20/2018	0.05	Y	n	u		0.050	0.010	mg/L

SDG: 18-12739

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-1-2Q18	1812739-10	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
Dup-1-2Q18	1812739-10	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-1-2Q18	1812739-10	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
Dup-1-2Q18	1812739-10	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
Dup-1-2Q18	1812739-10	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
Dup-1-2Q18	1812739-10	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
Dup-1-2Q18	1812739-10	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-1-2Q18	1812739-10	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-1-2Q18	1812739-10	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-1-2Q18	1812739-10	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
Dup-1-2Q18	1812739-10	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	Methyl acrylate	4/27/2018	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
Dup-1-2Q18	1812739-10	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
Dup-1-2Q18	1812739-10	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
Dup-1-2Q18	1812739-10	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
Dup-1-2Q18	1812739-10	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
Dup-1-2Q18	1812739-10	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
Dup-1-2Q18	1812739-10	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
Dup-1-2Q18	1812739-10	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
Dup-1-2Q18	1812739-10	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
Dup-1-2Q18	1812739-10	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
Dup-1-2Q18	1812739-10	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
Dup-1-2Q18	1812739-10	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
Dup-1-2Q18	1812739-10	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
Dup-1-2Q18	1812739-10	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
Dup-1-2Q18	1812739-10	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-1-2Q18	1812739-10	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
Dup-1-2Q18	1812739-10	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-1-2Q18	1812739-10	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
Dup-1-2Q18	1812739-10	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
Dup-1-2Q18	1812739-10	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
Dup-1-2Q18	1812739-10	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
Dup-1-2Q18	1812739-10	p-Isopropyltoluene	4/27/2018	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
Dup-1-2Q18	1812739-10	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
Dup-1-2Q18	1812739-10	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-1-2Q18	1812739-10	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
Dup-1-2Q18	1812739-10	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-1-2Q18	1812739-10	Chloroform	4/27/2018	0.16	Y	y	v j		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-1-2Q18	1812739-10	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
Dup-1-2Q18	1812739-10	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
Dup-1-2Q18	1812739-10	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-1-2Q18	1812739-10	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-1-2Q18	1812739-10	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-1-2Q18	1812739-10	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-1-2Q18	1812739-10	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-1-2Q18	1812739-10	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-1-2Q18	1812739-10	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-1-2Q18	1812739-10	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-1-2Q18	1812739-10	cis-1,3-Dichloropropene	4/27/2018	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
Dup-1-2Q18	1812739-10	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-1-2Q18	1812739-10	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-1-2Q18	1812739-10	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-1-2Q18	1812739-10	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-1-2Q18	1812739-10	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-1-2Q18	1812739-10	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-1-2Q18	1812739-10	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-1-2Q18	1812739-10	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-1-2Q18	1812739-10	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
EB-2-041918	1812739-07	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-2-041918	1812739-07	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
EB-2-041918	1812739-07	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-041918	1812739-07	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-041918	1812739-07	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Chlorobenzene	4/27/2018	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
EB-2-041918	1812739-07	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-041918	1812739-07	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-2-041918	1812739-07	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-2-041918	1812739-07	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-041918	1812739-07	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-041918	1812739-07	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-041918	1812739-07	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
EB-2-041918	1812739-07	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
EB-2-041918	1812739-07	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-2-041918	1812739-07	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-041918	1812739-07	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
EB-2-041918	1812739-07	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
EB-2-041918	1812739-07	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-041918	1812739-07	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
EB-2-041918	1812739-07	t-Amyl Methyl ether	4/27/2018	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
EB-2-041918	1812739-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-041918	1812739-07	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-041918	1812739-07	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-041918	1812739-07	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-041918	1812739-07	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-2-041918	1812739-07	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-2-041918	1812739-07	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
EB-2-041918	1812739-07	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-041918	1812739-07	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-041918	1812739-07	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	2-Nitropropane	4/27/2018	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
EB-2-041918	1812739-07	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
EB-2-041918	1812739-07	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
EB-2-041918	1812739-07	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-041918	1812739-07	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-041918	1812739-07	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-041918	1812739-07	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-041918	1812739-07	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-041918	1812739-07	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
EB-2-041918	1812739-07	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
EB-2-041918	1812739-07	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-2-041918	1812739-07	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-041918	1812739-07	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
EB-2-041918	1812739-07	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
EB-2-041918	1812739-07	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
EB-2-041918	1812739-07	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
EB-2-041918	1812739-07	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
EB-2-041918	1812739-07	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
EB-2-041918	1812739-07	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-2-041918	1812739-07	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
EB-2-041918	1812739-07	Tetrahydrofuran	4/27/2018	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
EB-2-041918	1812739-07	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-2-041918	1812739-07	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-041918	1812739-07	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
EB-2-041918	1812739-07	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-2-041918	1812739-07	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1812739-09	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-4	1812739-09	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-4	1812739-09	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-4	1812739-09	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-4	1812739-09	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-14-4	1812739-09	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-4	1812739-09	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-4	1812739-09	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-4	1812739-09	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1812739-09	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1812739-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-4	1812739-09	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	1,2,4-Trichlorobenzene	4/27/2018	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-14-4	1812739-09	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1812739-09	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1812739-09	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-14-4	1812739-09	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-14-4	1812739-09	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-14-4	1812739-09	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-4	1812739-09	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-14-4	1812739-09	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-4	1812739-09	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-4	1812739-09	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-4	1812739-09	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-4	1812739-09	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-4	1812739-09	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-4	1812739-09	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-4	1812739-09	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1812739-09	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-4	1812739-09	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-4	1812739-09	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-4	1812739-09	1,1,2,2-Tetrachloroethane	4/27/2018	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-14-4	1812739-09	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1812739-09	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1812739-09	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1812739-09	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-4	1812739-09	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1812739-09	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1812739-09	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-4	1812739-09	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-4	1812739-09	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1812739-09	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1812739-09	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	Chloroform	4/27/2018	0.18	Y	y	v j		0.50	0.14	ug/L
MW-14-4	1812739-09	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	1,1,1,2-Tetrachloroethane	4/27/2018	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-14-4	1812739-09	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1812739-09	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1812739-09	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1812739-09	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1812739-09	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1812739-09	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1812739-09	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1812739-09	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1812739-09	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1812739-09	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1812739-09	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1812739-09	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1812739-09	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1812739-09	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1812739-09	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-5	1812739-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-5	1812739-08	t-Butyl alcohol	4/27/2018	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-14-5	1812739-08	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-5	1812739-08	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-5	1812739-08	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-5	1812739-08	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-5	1812739-08	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-5	1812739-08	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1812739-08	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1812739-08	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-5	1812739-08	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1812739-08	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-5	1812739-08	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-5	1812739-08	Chloroacetonitrile	4/27/2018	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-14-5	1812739-08	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-5	1812739-08	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-5	1812739-08	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-5	1812739-08	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-14-5	1812739-08	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-5	1812739-08	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-5	1812739-08	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-5	1812739-08	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-5	1812739-08	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-5	1812739-08	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-5	1812739-08	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-5	1812739-08	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-5	1812739-08	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-5	1812739-08	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1812739-08	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1812739-08	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1812739-08	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1812739-08	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-5	1812739-08	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1812739-08	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-5	1812739-08	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	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-14-5	1812739-08	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1812739-08	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-5	1812739-08	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-5	1812739-08	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1812739-08	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1812739-08	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1812739-08	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1812739-08	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1812739-08	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1812739-08	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1812739-08	1,1-Dichloroethene	4/27/2018	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
MW-14-5	1812739-08	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1812739-08	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1812739-08	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1812739-08	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1812739-08	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1812739-08	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1812739-08	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1812739-06	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1812739-06	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1812739-06	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-1	1812739-06	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1812739-06	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-1	1812739-06	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1812739-06	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1812739-06	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1812739-06	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Chlorobenzene	4/27/2018	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-4-1	1812739-06	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1812739-06	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1812739-06	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-1	1812739-06	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-1	1812739-06	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1812739-06	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1812739-06	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-1	1812739-06	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-1	1812739-06	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-1	1812739-06	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-1	1812739-06	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-1	1812739-06	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-1	1812739-06	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-4-1	1812739-06	Vinyl chloride	4/27/2018	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-4-1	1812739-06	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-4-1	1812739-06	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-1	1812739-06	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-1	1812739-06	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-1	1812739-06	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1812739-06	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-1	1812739-06	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-1	1812739-06	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-1	1812739-06	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-1	1812739-06	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-1	1812739-06	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-1	1812739-06	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-1	1812739-06	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-1	1812739-06	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-1	1812739-06	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1812739-06	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-4-1	1812739-06	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-1	1812739-06	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1812739-06	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1812739-06	trans-1,3-Dichloropropene	4/27/2018	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
MW-4-1	1812739-06	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1812739-06	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1812739-06	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-4-1	1812739-06	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1812739-06	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1812739-06	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-1	1812739-06	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1812739-06	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1812739-06	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1812739-06	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1812739-06	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1812739-06	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1812739-06	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1812739-06	1,1-Dichloroethene	4/27/2018	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
MW-4-2	1812739-05	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1812739-05	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1812739-05	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1812739-05	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1812739-05	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1812739-05	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1812739-05	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1812739-05	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-2	1812739-05	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-2	1812739-05	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Bromodichloromethane	4/27/2018	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-4-2	1812739-05	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1812739-05	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-2	1812739-05	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	Chloroform	4/27/2018	0.49	Y	y	v j		0.50	0.14	ug/L
MW-4-2	1812739-05	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1812739-05	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-2	1812739-05	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1812739-05	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-2	1812739-05	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-2	1812739-05	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-2	1812739-05	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-2	1812739-05	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-2	1812739-05	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1812739-05	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-2	1812739-05	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-2	1812739-05	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-2	1812739-05	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-2	1812739-05	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-2	1812739-05	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-2	1812739-05	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-2	1812739-05	1,1-Dichloropropanone	4/27/2018	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-4-2	1812739-05	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-2	1812739-05	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-2	1812739-05	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-2	1812739-05	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1812739-05	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-2	1812739-05	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-2	1812739-05	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-4-2	1812739-05	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1812739-05	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1812739-05	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-2	1812739-05	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1812739-05	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-4-2	1812739-05	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1812739-05	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1812739-05	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	Tetrachloroethene	4/27/2018	0.32	Y	y	v j		0.50	0.23	ug/L
MW-4-2	1812739-05	Toluene	4/27/2018	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-4-2	1812739-05	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1812739-05	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1812739-05	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-2	1812739-05	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1812739-05	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-2	1812739-05	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-4-2	1812739-05	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1812739-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1812739-05	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-2	1812739-05	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1812739-05	Trichloroethene	4/27/2018	1.3	Y	y	v		0.50	0.19	ug/L
MW-4-2	1812739-05	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1812739-04	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1812739-04	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1812739-04	1,1-Dichloropropene	4/27/2018	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-4-3	1812739-04	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1812739-04	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1812739-04	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1812739-04	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1812739-04	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-3	1812739-04	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1812739-04	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1812739-04	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1812739-04	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-3	1812739-04	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-3	1812739-04	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Chloroform	4/27/2018	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-4-3	1812739-04	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1812739-04	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-3	1812739-04	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1812739-04	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-3	1812739-04	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1812739-04	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1812739-04	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1812739-04	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1812739-04	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-3	1812739-04	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-3	1812739-04	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-3	1812739-04	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-3	1812739-04	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-3	1812739-04	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-3	1812739-04	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-3	1812739-04	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-3	1812739-04	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1812739-04	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-3	1812739-04	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1812739-04	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-4-3	1812739-04	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1812739-04	4-Bromofluorobenzene (Surrogate)	4/27/2018	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
MW-4-3	1812739-04	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-3	1812739-04	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-3	1812739-04	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1812739-04	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-4-3	1812739-04	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-3	1812739-04	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	Tetrachloroethene	4/27/2018	0.25	Y	y	v j		0.50	0.23	ug/L
MW-4-3	1812739-04	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1812739-04	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1812739-04	Trichloroethene	4/27/2018	0.9	Y	y	v		0.50	0.19	ug/L
MW-4-3	1812739-04	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-3	1812739-04	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1812739-04	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-3	1812739-04	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1812739-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1812739-04	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-3	1812739-04	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-3	1812739-04	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	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-4-3	1812739-04	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1812739-04	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-3	1812739-04	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-4-3	1812739-04	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1812739-04	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-4	1812739-03	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-4	1812739-03	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1812739-03	Trichloroethene	4/27/2018	0.44	Y	y	v j		0.50	0.19	ug/L
MW-4-4	1812739-03	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-4	1812739-03	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	1,2,3-Trichlorobenzene	4/27/2018	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-4-4	1812739-03	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1812739-03	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-4	1812739-03	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-4	1812739-03	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-4	1812739-03	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-4	1812739-03	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-4	1812739-03	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1812739-03	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-4	1812739-03	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-4	1812739-03	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-4	1812739-03	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-4	1812739-03	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1812739-03	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1812739-03	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1812739-03	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-4	1812739-03	Dibromochloromethane	4/27/2018	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-4-4	1812739-03	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-4	1812739-03	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-4	1812739-03	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-4	1812739-03	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1812739-03	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-4	1812739-03	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1812739-03	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1812739-03	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-4-4	1812739-03	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-4	1812739-03	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-4	1812739-03	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-4	1812739-03	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-4-4	1812739-03	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-4	1812739-03	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1812739-03	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-4	1812739-03	Toluene-d8 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-4-4	1812739-03	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-4	1812739-03	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	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-4-4	1812739-03	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-4-4	1812739-03	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L	
MW-4-4	1812739-03	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-4-4	1812739-03	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L	
MW-4-4	1812739-03	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L	
MW-4-4	1812739-03	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-4-4	1812739-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-4-4	1812739-03	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-4-4	1812739-03	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L	
MW-4-4	1812739-03	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L	
MW-4-4	1812739-03	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L	
MW-4-4	1812739-03	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L	
MW-4-4	1812739-03	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L	
MW-4-4	1812739-03	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L	
MW-4-4	1812739-03	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L	
MW-4-4	1812739-03	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L	
MW-4-4	1812739-03	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L	
MW-4-4	1812739-03	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-4-4	1812739-03	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L	
MW-4-4	1812739-03	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-4-5	1812739-02	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L	
MW-4-5	1812739-02	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-4-5	1812739-02	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L	
MW-4-5	1812739-02	Styrene	4/27/2018	0.16	Y	y	v j		0.50	0.12	ug/L	
MW-4-5	1812739-02	n-Propylbenzene	4/27/2018	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-4-5	1812739-02	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-5	1812739-02	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-5	1812739-02	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-5	1812739-02	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-5	1812739-02	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-5	1812739-02	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1812739-02	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1812739-02	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Trichloroethene	4/27/2018	0.26	Y	y	v j		0.50	0.19	ug/L
MW-4-5	1812739-02	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Acetone	4/27/2018	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-4-5	1812739-02	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1812739-02	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-5	1812739-02	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-4-5	1812739-02	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-5	1812739-02	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-5	1812739-02	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-5	1812739-02	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1812739-02	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1812739-02	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1812739-02	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1812739-02	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1812739-02	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1812739-02	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1812739-02	Dichlorodifluoromethane	4/27/2018	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-4-5	1812739-02	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-5	1812739-02	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-5	1812739-02	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1812739-02	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-5	1812739-02	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-5	1812739-02	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-5	1812739-02	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1812739-02	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1812739-02	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-5	1812739-02	Ethylbenzene	4/27/2018	0.24	Y	y	v j		0.50	0.15	ug/L
MW-4-5	1812739-02	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-4-5	1812739-02	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-4-5	1812739-02	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-4-5	1812739-02	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1812739-02	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-5	1812739-02	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-4-5	1812739-02	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-5	1812739-02	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-5	1812739-02	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-4-5	1812739-02	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L

SDG: 18-12739

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-4-5	1812739-02	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-5	1812739-02	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1812739-02	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-4-5	1812739-02	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-4-5	1812739-02	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-4-5	1812739-02	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-5	1812739-02	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-4-5	1812739-02	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-5	1812739-02	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-5	1812739-02	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-2-041918	1812739-01	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-041918	1812739-01	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-041918	1812739-01	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-041918	1812739-01	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-041918	1812739-01	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
TB-2-041918	1812739-01	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 18-12739

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-2-041918	1812739-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
TB-2-041918	1812739-01	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-041918	1812739-01	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
TB-2-041918	1812739-01	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-041918	1812739-01	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
TB-2-041918	1812739-01	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-041918	1812739-01	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-041918	1812739-01	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-041918	1812739-01	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-041918	1812739-01	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	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-2-041918	1812739-01	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-2-041918	1812739-01	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-2-041918	1812739-01	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-2-041918	1812739-01	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-041918	1812739-01	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-041918	1812739-01	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-041918	1812739-01	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-041918	1812739-01	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-2-041918	1812739-01	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-041918	1812739-01	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-041918	1812739-01	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
TB-2-041918	1812739-01	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-041918	1812739-01	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
TB-2-041918	1812739-01	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-041918	1812739-01	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-041918	1812739-01	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-041918	1812739-01	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L

SDG: 18-12739

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-2-041918	1812739-01	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-2-041918	1812739-01	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
TB-2-041918	1812739-01	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-041918	1812739-01	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
TB-2-041918	1812739-01	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
TB-2-041918	1812739-01	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
TB-2-041918	1812739-01	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
TB-2-041918	1812739-01	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
TB-2-041918	1812739-01	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
TB-2-041918	1812739-01	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
TB-2-041918	1812739-01	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-041918	1812739-01	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-2-041918	1812739-01	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-2-041918	1812739-01	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
TB-2-041918	1812739-01	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
TB-2-041918	1812739-01	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-2-041918	1812739-01	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
TB-2-041918	1812739-01	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
TB-2-041918	1812739-01	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
TB-2-041918	1812739-01	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
TB-2-041918	1812739-01	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
TB-2-041918	1812739-01	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-041918	1812739-01	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
TB-2-041918	1812739-01	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
TB-2-041918	1812739-01	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L

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<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Hexavalent Chromium	4/19/2018	0.0028	Y	y	v		0.0020	0.0007	mg/L
EB-2-041918	1812739-07	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-14-4	1812739-09	Hexavalent Chromium	4/19/2018	0.0028	Y	y	v		0.0020	0.0007	mg/L
MW-14-5	1812739-08	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-1	1812739-06	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-2	1812739-05	Hexavalent Chromium	4/19/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
MW-4-3	1812739-04	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-4	1812739-03	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-5	1812739-02	Hexavalent Chromium	4/19/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

<b>Analytical Method</b>		EPA-8270D									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-4-1	1812739-06	Naphthalene-d8 (Surrogate)	5/4/2018	42	Y	y	v s				ug/L
MW-4-1	1812739-06	1,4-Dioxane	5/4/2018	1	Y	n	u		1.0	0.10	ug/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-1-2Q18	1812739-10	Total Alkalinity as CaCO3	4/30/2018	160	Y	y	v		4.1	4.1	mg/L
Dup-1-2Q18	1812739-10	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
Dup-1-2Q18	1812739-10	Bicarbonate	4/30/2018	200	Y	y	v		5.0	5.0	mg/L
EB-2-041918	1812739-07	Bicarbonate	4/30/2018	5	Y	n	u		5.0	5.0	mg/L
EB-2-041918	1812739-07	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
EB-2-041918	1812739-07	Total Alkalinity as CaCO3	4/30/2018	4.1	Y	n	u		4.1	4.1	mg/L
MW-14-4	1812739-09	Total Alkalinity as CaCO3	4/30/2018	160	Y	y	v		4.1	4.1	mg/L
MW-14-4	1812739-09	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-14-4	1812739-09	Bicarbonate	4/30/2018	190	Y	y	v		5.0	5.0	mg/L

SDG: 18-12739

Analytical Method		SM-2320B									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1812739-08	Carbonate	4/30/2018	7.1	Y	y	v		2.5	2.5	mg/L
MW-14-5	1812739-08	Total Alkalinity as CaCO3	4/30/2018	140	Y	y	v		4.1	4.1	mg/L
MW-14-5	1812739-08	Bicarbonate	4/30/2018	150	Y	y	v		5.0	5.0	mg/L
MW-4-1	1812739-06	Total Alkalinity as CaCO3	4/30/2018	150	Y	y	v		4.1	4.1	mg/L
MW-4-1	1812739-06	Bicarbonate	4/30/2018	190	Y	y	v		5.0	5.0	mg/L
MW-4-1	1812739-06	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-4-2	1812739-05	Total Alkalinity as CaCO3	4/30/2018	230	Y	y	v		8.2	8.2	mg/L
MW-4-2	1812739-05	Carbonate	4/30/2018	5	Y	n	u		5.0	5.0	mg/L
MW-4-2	1812739-05	Bicarbonate	4/30/2018	280	Y	y	v		10	10	mg/L
MW-4-3	1812739-04	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-4-3	1812739-04	Total Alkalinity as CaCO3	4/30/2018	220	Y	y	v		4.1	4.1	mg/L
MW-4-3	1812739-04	Bicarbonate	4/30/2018	270	Y	y	v		5.0	5.0	mg/L
MW-4-4	1812739-03	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-4-4	1812739-03	Total Alkalinity as CaCO3	4/30/2018	220	Y	y	v		4.1	4.1	mg/L
MW-4-4	1812739-03	Bicarbonate	4/30/2018	260	Y	y	v		5.0	5.0	mg/L
MW-4-5	1812739-02	Bicarbonate	4/30/2018	230	Y	y	v		5.0	5.0	mg/L
MW-4-5	1812739-02	Total Alkalinity as CaCO3	4/30/2018	190	Y	y	v		4.1	4.1	mg/L
MW-4-5	1812739-02	Carbonate	4/30/2018	2.5	Y	n	u		2.5	2.5	mg/L



## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 13, 2018

**Parameters:** Volatiles

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12884

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-3-042018	1812884-01	Water	04/20/18
MW-19-5	1812884-02	Water	04/20/18
MW-19-4	1812884-03	Water	04/20/18
MW-19-3	1812884-04	Water	04/20/18
MW-19-2	1812884-05	Water	04/20/18
MW-19-1**	1812884-06**	Water	04/20/18
EB-3-042018	1812884-07	Water	04/20/18
MW-14-3	1812884-08	Water	04/20/18
MW-14-2	1812884-09	Water	04/20/18
MW-14-1	1812884-10	Water	04/20/18
MW-21-5	1812884-11	Water	04/20/18
MW-21-3	1812884-12	Water	04/20/18
DUP-2-2Q18	1812884-13	Water	04/20/18
MW-21-5**	1812884-14**	Water	04/20/18
MW-21-4	1812884-15	Water	04/20/18

\*\*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
04/27/18 (26APR32)	Bromomethane	76.5	TB-3-042018 MW-19-5 MW-19-4	UJ (all non-detects)	P
04/27/18 (26APR33)	Methyl iodide Pentachloroethane	67.9 82.5	TB-3-042018 MW-19-5 MW-19-4	UJ (all non-detects) UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
04/27/18 (27APR02)	Bromomethane	47.5	MW-19-3 MW-19-2 MW-19-1** EB-3-042018 MW-14-3 MW-14-2 MW-14-1 MW-21-5 MW-21-3 DUP-2-2Q18 MW-21-5** MW-21-4	UJ (all non-detects)	P
04/27/18 (27APR03)	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	38.2 54.2 60.7	MW-19-3 MW-19-2 MW-19-1** EB-3-042018 MW-14-3 MW-14-2 MW-14-1 MW-21-5 MW-21-3 DUP-2-2Q18 MW-21-5** MW-21-4	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

## 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-3-042018 was identified as a trip blank. No contaminants were found.

Sample EB-3-042018 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

Samples MW-21-3 and DUP-2-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-21-3	DUP-2-2Q18	
Chloroform	0.48	0.54	12
Tetrachloroethene	1.1	1.4	24
Trichloroethene	0.89	1.1	21

## 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 fifteen 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 18-12884**

Sample	Compound	Flag	A or P	Reason
TB-3-042018 MW-19-5 MW-19-4	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)
MW-19-3 MW-19-2 MW-19-1** EB-3-042018 MW-14-3 MW-14-2 MW-14-1 MW-21-5 MW-21-3 DUP-2-2Q18 MW-21-5** MW-21-4	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)	P	Continuing calibration (%D)

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 18-12884**

No Sample Data Qualified in this SDG

LDC #: 42346C1

**VALIDATION COMPLETENESS WORKSHEET**

Date: 4/11/18

SDG #: 18-12884

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

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	$RSD \leq 20\%$ , $\delta^2$ $1CV \leq 30\%$
IV.	Continuing calibration	SW	$CCV \leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=7
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	CS
X.	Field duplicates	SW	$\delta = 12+13$
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	TB-3-042018	1812884-01	Water	04/20/18
2	MW-19-5	1812884-02	Water	04/20/18
3	MW-19-4	1812884-03	Water	04/20/18
4	MW-19-3	1812884-04	Water	04/20/18
5	MW-19-2	1812884-05	Water	04/20/18
6	MW-19-1**	1812884-06**	Water	04/20/18
7	EB-3-042018	1812884-07	Water	04/20/18
8	MW-14-3	1812884-08	Water	04/20/18
9	MW-14-2	1812884-09	Water	04/20/18
10	MW-14-1	1812884-10	Water	04/20/18
11	MW-21-5	1812884-11	Water	04/20/18
12	MW-21-3	1812884-12	Water	04/20/18
13	DUP-2-2Q18	1812884-13	Water	04/20/18



LDC #: 42346C1

# VALIDATION COMPLETENESS WORKSHEET

SDG #: 18-12884

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 6/1/18

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: JV

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-21-2**	1812884-14**	Water	04/20/18
15	MW-21-4	1812884-15	Water	04/20/18
16				
17				
18				
19				
20				

Notes:


**Method:** Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
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"/>	
<b>II. GC/MS Instrument performance check</b>				
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"/>	
<b>III. Initial calibration</b>				
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"/>	
<b>IIIa. Initial Calibration Verification calibration</b>				
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"/>	
<b>IV. Continuing calibration</b>				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Laboratory Blanks</b>				
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"/>	
<b>VI. Field blanks</b>				
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"/>	
<b>VII. Surrogate spikes</b>				
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"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LDC #: 123456

**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?	/			
Were the LCS percent recoveries (%R) within 70-130%?	/			
<b>X. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
<b>XI. Internal standards</b>				
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?	/			
<b>XII. Compound quantitation/CRQLs</b>				
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?	/			
<b>XIII. Target compound identification</b>				
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?	/			
<b>XIV. System performance</b>				
System performance was found to be acceptable.	/			
<b>XV. Overall assessment of data</b>				
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
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	WWWW. 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 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".

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

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

#	Date	Standard ID	Compound	Finding %D (Limit: $\leq 30.0\%$ )	Associated Samples	Qualifications
	<u>4/27/18</u>	<u>26APR30</u> <u>✓ 33</u>	<u>B</u> <u>Methyl iodide</u> <u>2222</u>	<u>76.5</u> <u>67.9</u> <u>82.5</u>	<u>1-3. M/B</u> <u>(NO)</u>	<u><del>N/A</del></u> <u>↓</u>
	<u>4/27/18</u>	<u>27APR02</u> <u>✓ 03</u>	<u>B</u> <u>YYY</u> <u>Methyl iodide</u> <u>2222</u>	<u>47.5</u> <u>38.2</u> <u>54.2</u> <u>60.7</u>	<u>4-15. (NO)</u>	<u><del>N/A</del></u> <u>↓</u>

LDC#: 42346C1

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	12	13	
K	0.48	0.54	12
AA	1.1	1.4	24
S	0.89	1.1	21

V:\FIELD DUPLICATES\Field Duplicates\FD\_Organics\2018\42346C1\_JPL.wpd

## 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)	3/27/18	V (1st internal standard)	1.798647	1.798647	1.760283	1.760283	6.339782	6.340
			S (2nd internal standard)	0.3328806	0.3328806	0.3476939	0.3476939	4.564263	4.564
			EE (3rd internal standard)	1.965132	1.9651323	1.884709	1.884709	8.916074	8.916
			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 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:

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

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

Where: ave. RRF = initial calibration average RRF  
 RRF = continuing calibration RRF  
 A<sub>x</sub> = Area of compound,                      A<sub>is</sub> = Area of associated internal standard  
 C<sub>x</sub> = Concentration of compound,            C<sub>is</sub> = 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	27APR02	4/27/18	V (1st internal standard)	1.760283	1.859241	1.859241	5.6	5.6
			S (2nd internal standard)	0.3476939	0.357441	0.357441	2.8	2.8
			EE (3rd internal standard)	1.884709	2.047105	2.047105	8.6	8.6
			HHH (4th internal standard)					
2	26APR32	4/27/18	V (1st internal standard)	1.760283	1.87944	1.87944	6.8	6.8
			S (2nd internal standard)	0.3476939	0.3965621	0.3965621	14.1	14.1
			EE (3rd internal standard)	1.884709	2.011466	2.011466	6.7	6.7
			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 #: A2346e1

### VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1  
Reviewer: Q  
2nd reviewer: JV6

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: 6

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.000	9.98	99.8	99.8	0
Bromofluorobenzene	↓	10.38	104	104	↓
1,2-Dichlorobenzene-d4 1,2-DCE	↓	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					

## 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: BD/2018-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>25.000</u>	<u>NA</u>	<u>27.020</u>	<u>NA</u>	<u>108</u>	<u>108</u>				
Trichloroethene	↓	↓	<u>28.290</u>	↓	<u>113</u>	<u>113</u>				
Benzene	↓	↓	<u>25.690</u>	↓	<u>103</u>	<u>103</u>				
Toluene	↓	↓	<u>25.430</u>	↓	<u>102</u>	<u>102</u>				
Chlorobenzene	↓	↓	<u>25.770</u>	↓	<u>103</u>	<u>103</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?

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

- $A_x$  = Area of the characteristic ion (EICP) for the compound to be measured
- $A_s$  = 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. 14 S:

$$\text{Conc.} = \frac{(2477)(10.0)(1)}{(3533)(0.3416939)( )}$$

$$= 0.22 \text{ } \mu\text{L}$$

#	Sample ID	Compound	Reported Concentration <small>(μg)</small>	Calculated Concentration <small>( )</small>	Qualification
	<u>14</u>	<del>X</del> <u>S</u>	<u>0.22</u>		

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 14, 2018

**Parameters:** Metals

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12884

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-19-5	1812884-02	Water	04/20/18
MW-19-4	1812884-03	Water	04/20/18
MW-19-3	1812884-04	Water	04/20/18
MW-19-2	1812884-05	Water	04/20/18
MW-19-1**	1812884-06**	Water	04/20/18
EB-3-042018	1812884-07	Water	04/20/18
MW-14-3	1812884-08	Water	04/20/18
MW-14-2	1812884-09	Water	04/20/18
MW-14-1	1812884-10	Water	04/20/18
MW-21-5	1812884-11	Water	04/20/18
MW-21-3	1812884-12	Water	04/20/18
DUP-2-2Q18	1812884-13	Water	04/20/18
MW-21-2**	1812884-14**	Water	04/20/18
MW-21-4	1812884-15	Water	04/20/18
MW-19-5MS	1812884-02MS	Water	04/20/18
MW-19-5MSD	1812884-02MSD	Water	04/20/18
MW-19-5DUP	1812884-02DUP	Water	04/20/18
MW-19-4MS	1812884-03MS	Water	04/20/18
MW-19-4MSD	1812884-03MSD	Water	04/20/18
MW-19-4DUP	1812884-03DUP	Water	04/20/18
MW-21-3MS	1812884-12MS	Water	04/20/18
MW-21-3MSD	1812884-12MSD	Water	04/20/18
MW-21-3DUP	1812884-12DUP	Water	04/20/18

\*\*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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits with the following exceptions:

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
05/01/18	CCV (07:51)	Lead	85.87 (90-110)	MW-21-2** MW-21-4	J (all detects) UJ (all non-detects)	P

## IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

## 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
ICB/CCB	Potassium	0.14101 mg/L	MW-19-5 MW-19-4 MW-19-3 MW-19-2 MW-19-1** EB-3-042018 MW-14-3 MW-14-2 MW-14-1 MW-21-5
PB (prep blank)	Chromium	1.8330 ug/L	MW-21-3 DUP-2-2Q18 MW-21-2** MW-21-4

Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Arsenic	0.74200 ug/L	MW-21-3 DUP-2-2Q18 MW-21-2** MW-21-4

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-21-3	Chromium	0.61 ug/L	0.61U ug/L
MW-21-2**	Chromium	0.66 ug/L	0.66U ug/L
MW-21-4	Chromium	1.7 ug/L	1.7U ug/L

## VI. Field Blanks

Sample EB-3-042018 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-3-042018	Chromium Calcium Sodium	0.58 ug/L 0.029 mg/L 0.078 mg/L

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-19-4MS/MSD, no data were qualified for Calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. 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 methods. Percent recoveries (%R) were within QC limits.

## XI. Field Duplicates

Samples MW-21-3 and DUP-2-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-21-3	DUP-2-2Q18	
Iron	130 ug/L	130 ug/L	0
Chromium	0.61 ug/L	0.50U ug/L	20
Calcium	150 mg/L	140 mg/L	7
Magnesium	45 mg/L	45 mg/L	0
Sodium	57 mg/L	55 mg/L	4
Potassium	3.6 mg/L	3.5 mg/L	3

## 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 methods. No results were rejected in this SDG.

Due to instrument calibration CCV %R, data were qualified as estimated in two samples.



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. 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, 2Q2018  
Metals - Data Qualification Summary - SDG 18-12884**

Sample	Analyte	Flag	A or P	Reason
MW-21-2** MW-21-4	Lead	J (all detects) UJ (all non-detects)	P	Instrument calibration (CCV %R)

**NASA JPL, 2Q2018  
Metals - Laboratory Blank Data Qualification Summary - SDG 18-12884**

Sample	Analyte	Modified Final Concentration	A or P
MW-21-3	Chromium	0.61U ug/L	A
MW-21-2**	Chromium	0.66U ug/L	A
MW-21-4	Chromium	1.7U ug/L	A

LDC #: 42346C4a

## VALIDATION COMPLETENESS WORKSHEET


Date: 6/13/18

SDG #: 18-12884

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: 

METHOD: Metals (EPA Method 200.7/200.8)

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	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB=6 → Ca x 4x
VII.	Matrix Spike/Matrix Spike Duplicates	A	(15,16) (18,19) (21,22)
VIII.	Duplicate sample analysis	A	(17) - Or: As ok by difference, (20) (23)
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(11,12)
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  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinstate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

\*\* Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-19-5	1812884-02	Water	04/20/18
2	MW-19-4	1812884-03	Water	04/20/18
3	MW-19-3	1812884-04	Water	04/20/18
4	MW-19-2	1812884-05	Water	04/20/18
5	MW-19-1**	1812884-06**	Water	04/20/18
6	EB-3-042018	1812884-07	Water	04/20/18
7	MW-14-3	1812884-08	Water	04/20/18
8	MW-14-2	1812884-09	Water	04/20/18
9	MW-14-1	1812884-10	Water	04/20/18
10	MW-21-25	1812884-11	Water	04/20/18
11	MW-21-3	1812884-12	Water	04/20/18
12	DUP-2-2Q18	1812884-13	Water	04/20/18
13	MW-21-2**	1812884-14**	Water	04/20/18
14	MW-21-4	1812884-15	Water	04/20/18
15	MW-19-5MS	1812884-02MS	Water	04/20/18

LDC #: 42346C4a

# VALIDATION COMPLETENESS WORKSHEET

Date: 01/31/18

SDG #: 18-12884

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-19-5MSD	1812884-02MSD	Water	04/20/18
17	MW-19-5DUP	1812884-02DUP	Water	04/20/18
18	MW-19-4MS	1812884-03MS	Water	04/20/18
19	MW-19-4MSD	1812884-03MSD	Water	04/20/18
20	MW-19-4DUP	1812884-03DUP	Water	04/20/18
21	MW-21-3MS	1812884-12MS	Water	04/20/18
22	MW-21-3MSD	1812884-12MSD	Water	04/20/18
23	MW-21-3DUP	1812884-12DUP	Water	04/20/18
24				
25				
26				
27				
28				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
<b>II. ICP/MS Tune</b>				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
<b>III. Calibration</b>				
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?			✓	
<b>IV. Blanks</b>				
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.	✓			
<b>V. ICP Interference Check Sample</b>				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
<b>VI. Matrix spike/Matrix spike duplicates</b>				
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.	✓			
<b>VII. Laboratory control samples</b>				
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
<b>VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)</b>				
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?			✓	
<b>IX. ICP Serial Dilution</b>				
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.		✓		
<b>X. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
<b>XI. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>XII. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>XIII. Field blanks</b>				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			



LDC #: 42316C4a  
 SDG #: 13-2884

**VALIDATION FINDINGS WORKSHEET**  
Calibration

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

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

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

- Y  N  N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?  
 Y  N  N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%) and cyanide (85-115%)?

**LEVEL IV ONLY:**

- Y  N  N/A Was a midrange cyanide standard distilled?  
 Y  N  N/A Are all correlation coefficients  $\geq 0.995$ ?  
 Y  N  N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualification of Data
	5/11/18	CCV (07:51)	Pb	85.87 (90-110)	13, 14	J/USIP (Det/ND)

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**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: mg/L

Associated Samples: 1 - 10

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
K			0.14101	0.70505									

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 11 - 14

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/l)	Maximum ICB/CCB <sup>a</sup> (ug/l)	Action Level	11	13	14						
As			0.74200	3.71									
Cr		1.8330		9.165	0.61	0.66	1.7						

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 #: 42346C4a  
SDG #: 18-12994

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

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

**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 \_\_\_\_\_ (circle one)

Analyte	Concentration Units ( )
Chromium	0.58 ug/L
Calcium	0.029 mg/L
Sodium	0.078 mg/L

**Sample:** \_\_\_\_\_ Field Blank / Trip Blank / Rinsate / Other \_\_\_\_\_ (circle one)

Analyte	Concentration Units ( )

LDC#: 42346C4a

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** Metals (EPA Method 6020A/7000)

Analyte	Concentration (ug/L)		RPD	
	11	12		
Iron	130	130	0	
Chromium	0.61	0.50U	20	
Calcium (mg/L)	150	140	7	
Magnesium (mg/L)	45	45	0	
Sodium (mg/L)	57	55	4	
Potassium (mg/L)	3.6	3.5	3	

V:\FIELD DUPLICATES\Field Duplicates\FD\_inorganic\2018\42346C4a.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)						
ICV	ICP (Initial calibration)	Ca	50.81 mg/L	50.000 mg/L	102%	102%	Y
ICV	ICP/MS (Initial calibration)	Cr	51.816 ug/L	50.000 ug/L	104%	104%	Y
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 17:53	Fe	10.78 mg/L	10.000 mg/L	108%	108%	Y
CCV	ICP/MS (Continuing calibration) 07:44	Pb	100.02 ug/L	100.00 ug/L	100%	100%	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	207.977	207.978	± 0.1 AMU	NA	Y
	%RSD	24.0	21229.6	≤ 5% RSD	0.7%	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	
IFB	ICP interference check	Fe	192.6 mg/L	200.00 ug/L	96.3%	96.3%	Y
LCS	Laboratory control sample	Fe	1.147 mg/L	1000.0 ug/L	115%	115%	Y
MS	Matrix spike -12	As	<sup>ND</sup> (SSR-SR) 108.931 ug/L	100.00 ug/L	109%	109%	Y
MSD	Duplicate	As	106.818 ug/L	FOUND: 108.931 ug/L	1.96%	1.96%	Y
PDS	Post digestion spike	Ni	39.77 mg/L	SA - 10.000 mg/L SR - 29.949	98.2%	98.2%	Y
	ICP serial dilution						

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

LDC #: 42346C4e  
 SDG #: 18-12884

### VALIDATION FINDINGS WORKSHEET

#### Sample Calculation Verification

Page: 1 of 1  
 Reviewer: JA  
 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 Mg # 5 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

*Mg From Raw Data = 27.34 mg/l*

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
<u>6</u>	<u>5</u>	<u>Fe</u>	<u>210</u>	<u>210</u>	<u>Y</u>
	<u>5</u>	<u>Mg</u>	<u>27 mg/l</u>	<u>27 mg/l</u>	<u>Y</u>
	<u>13</u>	<u>Cr</u>	<u>0.66</u>	<u>0.66</u>	<u>Y</u>

Note: \_\_\_\_\_  
 \_\_\_\_\_

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 14, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 18-12884

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-19-5	1812884-02	Water	04/20/18
MW-19-4	1812884-03	Water	04/20/18
MW-19-3	1812884-04	Water	04/20/18
MW-19-2	1812884-05	Water	04/20/18
MW-19-1**	1812884-06**	Water	04/20/18
EB-3-042018	1812884-07	Water	04/20/18
MW-14-3	1812884-08	Water	04/20/18
MW-14-2	1812884-09	Water	04/20/18
MW-14-1	1812884-10	Water	04/20/18
MW-21-5	1812884-11	Water	04/20/18
MW-21-3	1812884-12	Water	04/20/18
DUP-2-2Q18	1812884-13	Water	04/20/18
MW-21-2**	1812884-14**	Water	04/20/18
MW-21-4	1812884-15	Water	04/20/18
MW-19-5MS	1812884-02MS	Water	04/20/18
MW-19-5MSD	1812884-02MSD	Water	04/20/18
MW-19-5DUP	1812884-02DUP	Water	04/20/18
MW-19-2DUP	1812884-05DUP	Water	04/20/18
MW-19-1MS	1812884-06MS	Water	04/20/18
MW-19-1MSD	1812884-06MSD	Water	04/20/18
MW-19-1DUP	1812884-06DUP	Water	04/20/18
MW-14-1DUP	1812884-10DUP	Water	04/20/18
MW-21-3DUP	1812884-12DUP	Water	04/20/18
MW-21-2MS	1812884-14MS	Water	04/20/18
MW-21-2MSD	1812884-14MSD	Water	04/20/18
MW-21-2DUP	1812884-14DUP	Water	04/20/18

\*\*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:

Alkalinity by Standard Method 2320B

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

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
MW-19-5 MW-19-4 MW-19-3 MW-19-2 MW-19-1** EB-3-042018 MW-14-3 MW-14-2 MW-14-1 MW-21-5 MW-21-3 DUP-2-2Q18 MW-21-2** MW-21-4	pH	11 days	48 hours	J (all detects)	P

## 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-3-042018 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-3-042018	Chloride Nitrate as N Sulfate	0.21 mg/L 0.031 mg/L 0.29 mg/L

## 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-21-3 and DUP-2-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-21-3	DUP-2-2Q18	
Perchlorate	0.58U ug/L	3.8 ug/L	147
pH	7.95 units	7.80 units	2
Total dissolved solids	820 mg/L	820 mg/L	0
Chloride	130 mg/L	130 mg/L	0
Nitrate as N	10 mg/L	10 mg/L	0
Sulfate	160 mg/L	160 mg/L	0
Total alkalinity	0.018 mg/L	0.023 mg/L	24
Bicarbonate	300 mg/L	300 mg/L	0
Hexavalent chromium	370 mg/L	360 mg/L	3

## 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 technical holding time, data were qualified as estimated in fourteen 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, 2Q2018  
Wet Chemistry - Data Qualification Summary - SDG 18-12884**

Sample	Analyte	Flag	A or P	Reason
MW-19-5 MW-19-4 MW-19-3 MW-19-2 MW-19-1** EB-3-042018 MW-14-3 MW-14-2 MW-14-1 MW-21-5 MW-21-3 DUP-2-2Q18 MW-21-2** MW-21-4	pH	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018  
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 18-12884**

No Sample Data Qualified in this SDG

LDC #: 42346C6

**VALIDATION COMPLETENESS WORKSHEET**

Date: 6/13/19

SDG #: 18-12884

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 13

2nd Reviewer: 1

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

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 / SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	SW	EB = 6
VI.	Matrix Spike/Matrix Spike Duplicates	A	(15.16) (19.20) (24.25)
VII.	Duplicate sample analysis	A	17, 18 21, 22, 23, 24
VIII.	Laboratory control samples	A	LOS
IX.	Field duplicates	SW	(11, 12)
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 was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-19-5	1812884-02	Water	04/20/18
2	MW-19-4	1812884-03	Water	04/20/18
3	MW-19-3	1812884-04	Water	04/20/18
4	MW-19-2	1812884-05	Water	04/20/18
5	MW-19-1**	1812884-06**	Water	04/20/18
6	EB-3-042018	1812884-07	Water	04/20/18
7	MW-14-3	1812884-08	Water	04/20/18
8	MW-14-2	1812884-09	Water	04/20/18
9	MW-14-1	1812884-10	Water	04/20/18
10	MW-21- <del>2</del> 5	1812884-11	Water	04/20/18
11	MW-21-3	1812884-12	Water	04/20/18
12	DUP-2-2Q18	1812884-13	Water	04/20/18
13	MW-21-2**	1812884-14**	Water	04/20/18
14	MW-21-4	1812884-15	Water	04/20/18
15	MW-19-5MS C104	1812884-02MS	Water	04/20/18
16	MW-19-5MSD	1812884-02MSD	Water	04/20/18
17	MW-19-5DUP	1812884-02DUP	Water	04/20/18

LDC #: 42346C6

# VALIDATION COMPLETENESS WORKSHEET

Date: 10/13/19

SDG #: 18-12884

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*  
2nd Reviewer: *[Signature]*

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH EPA Method 150.1, TDS (EPA Method 160.1)

	Client ID	Lab ID	Matrix	Date
18	MW-19-2DUP <sup>T</sup>	1812884-05DUP	Water	04/20/18
19	MW-19-1MS * <sup>c</sup>	1812884-06MS	Water	04/20/18
20	MW-19-1MSD	1812884-06MSD	Water	04/20/18
21	MW-19-1DUP	1812884-06DUP	Water	04/20/18
22	MW-14-1DUP <i>pk tk</i>	1812884-10DUP	Water	04/20/18
23	MW-21-3DUP <sup>T</sup>	1812884-12DUP	Water	04/20/18
24	MW-21-2MS * <sup>c</sup>	1812884-14MS	Water	04/20/18
25	MW-21-2MSD	1812884-14MSD	Water	04/20/18
26	MW-21-2DUP	1812884-14DUP	Water	04/20/18
27				
28				
29				
30				
31				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Method:** Inorganics (EPA Method See (over))

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
<b>II. Calibration</b>				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients $\geq 0.995$ ?	✓			
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)	✓			
<b>III. Blanks</b>				
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.		✓		
<b>IV. Matrix spike/Matrix spike duplicates and Duplicates</b>				
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 $\leq \text{CRDL}$ ( $\leq 2X \text{ CRDL}$ for soil) was used for samples that were $\leq 5X$ the CRDL, including when only one of the duplicate sample values were $< 5X$ the CRDL.	✓			
<b>V. Laboratory control samples</b>				
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?	✓			
<b>VI. Regional Quality Assurance and Quality Control</b>				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	



Validation Area	Yes	No	NA	Findings/Comments
<b>VII. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
<b>VIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>IX. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>X. Field blanks</b>				
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
1-14	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
0c	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
15-17	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
18	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
19-21	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
22	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
23	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
24-26	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
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	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>

Comments: \_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Technical Holding Times**

All circled dates have exceeded the technical holding time.  
Y/N/N/A Were all samples preserved as applicable to each method?  
Y/N/N/A Were all cooler temperatures within validation criteria?

Method:		EPA 150.1					
Parameters:		pH					
Technical holding time:		48 hours					
Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
1-14	4/20/18	5/1/18	11 days	JUNIP (det)			

LDC #: 4234606  
SDG #: 18-12804

### VALIDATION FINDINGS WORKSHEET

#### Field Blanks

Page: 1 of 1  
Reviewer: [Signature]  
2nd reviewer: \_\_\_\_\_

**METHOD:** Inorganics

(Y) N N/A  
(Y) N N/A

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

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

Analyte	Concentration Units (mg/L)
Chloride	0.21
Nitrate as N	0.031
Sulfate	0.29

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

Analyte	Concentration Units ( )

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	11	12		
Perchlorate (ug/L)	0.58U	3.8	147	
pH (pH Units)	7.95	7.80	2	
TDS	820	820	0	
Chloride	130	130	0	
Nitrate as N	10	10	0	
Sulfate	160	160	0	
Nitrite as N	0.018	0.023	24	
Total Alkalinity	300	300	0	
Bicarbonate	370	360	3	

LDC #: 4234606

**Validation Findings Worksheet  
Initial and Continuing Calibration Calculation Verification**

Page: 1 of 1

Reviewer: B

2nd Reviewer: [Signature]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of NO<sub>2</sub> was recalculated. Calibration date: 4/11/18

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 <sup>2</sup>	r or r <sup>2</sup>	
Initial calibration	NO <sub>2</sub>	s1	0	0.00752	0.999991	0.999991	Y
		s2	0.02	0.01762			
		s3	0.05	0.0331			
		s4	0.1	0.06019			
		s5	0.5	0.2743			
		s6	1	0.53869			
Calibration verification	SO <sub>4</sub>	ICV	Found: 100.58mg/L	True: 100.00mg/L	101.7%	102.7%	Y
Calibration verification	Cr <sup>6+</sup>	CCV <sub>5</sub>	Found: 0.0495mg/L	True: 0.050000mg/L	100.7%	101.7%	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 #: 42306C6

**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	P#	7.04 ppt units	7.0000 ppt units	101%	101%	Y
MS	Matrix spike sample -4	SO4	53.587 (SSR-SR) 160.724 - SR = 107.139 mg/L	101.01 mg/L	106%	117%	Y
MSD	Duplicate sample	SO4	160.695 mg/L	FOUND: 160.726 mg/L	0.0197%	0.0196%	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 NO<sub>2</sub> (Nitrite) # 13 reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation:

$$y = mx + b$$

$$y = 0.226$$

$$m = 0.53205$$

$$b = 0.00714$$

$$NO_2 = \frac{0.226 - 0.00714}{0.53205}$$

$$= 0.4113 \text{ mg/L}$$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
6	5	pH	8.05 pH units	8.05 pH units	Y
		TDS	390	390	Y
		Cl <sup>-</sup>	21	21	Y
		Alk <sup>-</sup>	240	240	Y
4	<del>13</del> 13	NO <sub>3</sub>	5.3	5.3	Y
		Cl <sub>04</sub>	1.7 ug/L	1.6 ug/L	Y
		NO <sub>2</sub>	0.41	0.41	Y

Note: \_\_\_\_\_



## NASA JPL, 2Q2018 - LDC# 42346C

SDG: 18-12884

<b>Analytical Method</b>											
EPA-150.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	pH	5/1/2018	7.8	Y	y	v	J	0.05	0.05	pH Units
EB-3-042018	1812884-07	pH	5/1/2018	4.58	Y	y	v	J	0.05	0.05	pH Units
MW-14-1	1812884-10	pH	5/1/2018	7.64	Y	y	v	J	0.05	0.05	pH Units
MW-14-2	1812884-09	pH	5/1/2018	7.83	Y	y	v	J	0.05	0.05	pH Units
MW-14-3	1812884-08	pH	5/1/2018	8	Y	y	v	J	0.05	0.05	pH Units
MW-19-1	1812884-06	pH	5/1/2018	8.05	Y	y	v	J	0.05	0.05	pH Units
MW-19-2	1812884-05	pH	5/1/2018	7.68	Y	y	v	J	0.05	0.05	pH Units
MW-19-3	1812884-04	pH	5/1/2018	7.64	Y	y	v	J	0.05	0.05	pH Units
MW-19-4	1812884-03	pH	5/1/2018	8	Y	y	v	J	0.05	0.05	pH Units
MW-19-5	1812884-02	pH	5/1/2018	8.09	Y	y	v	J	0.05	0.05	pH Units
MW-21-2	1812884-14	pH	5/1/2018	7.62	Y	y	v	J	0.05	0.05	pH Units
MW-21-3	1812884-12	pH	5/1/2018	7.95	Y	y	v	J	0.05	0.05	pH Units
MW-21-4	1812884-15	pH	5/1/2018	7.89	Y	y	v	J	0.05	0.05	pH Units
MW-21-5	1812884-11	pH	5/1/2018	8.05	Y	y	v	J	0.05	0.05	pH Units

<b>Analytical Method</b>											
EPA-160.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	Total Dissolved Solids @ 180 C	4/26/2018	820	Y	y	v		50	50	mg/L
EB-3-042018	1812884-07	Total Dissolved Solids @ 180 C	4/26/2018	6.7	Y	n	u		6.7	6.7	mg/L
MW-14-1	1812884-10	Total Dissolved Solids @ 180 C	4/26/2018	900	Y	y	v		50	50	mg/L
MW-14-2	1812884-09	Total Dissolved Solids @ 180 C	4/26/2018	880	Y	y	v		50	50	mg/L
MW-14-3	1812884-08	Total Dissolved Solids @ 180 C	4/26/2018	790	Y	y	v		50	50	mg/L
MW-19-1	1812884-06	Total Dissolved Solids @ 180 C	4/26/2018	390	Y	y	v		20	20	mg/L
MW-19-2	1812884-05	Total Dissolved Solids @ 180 C	4/26/2018	860	Y	y	v		50	50	mg/L

SDG: 18-12884

Analytical Method		EPA-160.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1812884-04	Total Dissolved Solids @ 180 C	4/26/2018	510	Y	y	v		33	33	mg/L
MW-19-4	1812884-03	Total Dissolved Solids @ 180 C	4/26/2018	440	Y	y	v		20	20	mg/L
MW-19-5	1812884-02	Total Dissolved Solids @ 180 C	4/26/2018	400	Y	y	v		20	20	mg/L
MW-21-2	1812884-14	Total Dissolved Solids @ 180 C	4/26/2018	960	Y	y	v		50	50	mg/L
MW-21-3	1812884-12	Total Dissolved Solids @ 180 C	4/26/2018	820	Y	y	v		50	50	mg/L
MW-21-4	1812884-15	Total Dissolved Solids @ 180 C	4/26/2018	580	Y	y	v		33	33	mg/L
MW-21-5	1812884-11	Total Dissolved Solids @ 180 C	4/26/2018	570	Y	y	v		33	33	mg/L

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-2Q18	1812884-13	Total Recoverable Calcium	5/3/2018	140	Y	y	v		0.10	0.014	mg/L
DUP-2-2Q18	1812884-13	Total Recoverable Magnesium	5/3/2018	45	Y	y	v		0.050	0.019	mg/L
DUP-2-2Q18	1812884-13	Total Recoverable Sodium	5/3/2018	55	Y	y	v		0.50	0.051	mg/L
DUP-2-2Q18	1812884-13	Total Recoverable Potassium	5/3/2018	3.5	Y	y	v		1.0	0.10	mg/L
DUP-2-2Q18	1812884-13	Total Recoverable Iron	5/3/2018	130	Y	y	v		50	30	ug/L
EB-3-042018	1812884-07	Total Recoverable Magnesium	5/3/2018	0.05	Y	n	u		0.050	0.019	mg/L
EB-3-042018	1812884-07	Total Recoverable Potassium	5/3/2018	1	Y	n	u		1.0	0.10	mg/L
EB-3-042018	1812884-07	Total Recoverable Iron	5/3/2018	50	Y	n	u		50	30	ug/L
EB-3-042018	1812884-07	Total Recoverable Sodium	5/3/2018	0.078	Y	y	v j		0.50	0.051	mg/L
EB-3-042018	1812884-07	Total Recoverable Calcium	5/3/2018	0.029	Y	y	v j		0.10	0.014	mg/L
MW-14-1	1812884-10	Total Recoverable Iron	5/3/2018	98	Y	y	v		50	30	ug/L
MW-14-1	1812884-10	Total Recoverable Sodium	5/3/2018	45	Y	y	v		0.50	0.051	mg/L
MW-14-1	1812884-10	Total Recoverable Potassium	5/3/2018	2.6	Y	y	v		1.0	0.10	mg/L
MW-14-1	1812884-10	Total Recoverable Magnesium	5/3/2018	50	Y	y	v		0.050	0.019	mg/L
MW-14-1	1812884-10	Total Recoverable Calcium	5/3/2018	150	Y	y	v		0.10	0.014	mg/L

SDG: 18-12884

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1812884-09	Total Recoverable Sodium	5/3/2018	41	Y	y	v		0.50	0.051	mg/L
MW-14-2	1812884-09	Total Recoverable Calcium	5/3/2018	150	Y	y	v		0.10	0.014	mg/L
MW-14-2	1812884-09	Total Recoverable Magnesium	5/3/2018	52	Y	y	v		0.050	0.019	mg/L
MW-14-2	1812884-09	Total Recoverable Iron	5/3/2018	200	Y	y	v		50	30	ug/L
MW-14-2	1812884-09	Total Recoverable Potassium	5/3/2018	2.9	Y	y	v		1.0	0.10	mg/L
MW-14-3	1812884-08	Total Recoverable Magnesium	5/3/2018	52	Y	y	v		0.050	0.019	mg/L
MW-14-3	1812884-08	Total Recoverable Potassium	5/3/2018	3.2	Y	y	v		1.0	0.10	mg/L
MW-14-3	1812884-08	Total Recoverable Calcium	5/3/2018	130	Y	y	v		0.10	0.014	mg/L
MW-14-3	1812884-08	Total Recoverable Sodium	5/3/2018	45	Y	y	v		0.50	0.051	mg/L
MW-14-3	1812884-08	Total Recoverable Iron	5/3/2018	300	Y	y	v		50	30	ug/L
MW-19-1	1812884-06	Total Recoverable Iron	5/3/2018	210	Y	y	v		50	30	ug/L
MW-19-1	1812884-06	Total Recoverable Magnesium	5/3/2018	27	Y	y	v		0.050	0.019	mg/L
MW-19-1	1812884-06	Total Recoverable Sodium	5/3/2018	27	Y	y	v		0.50	0.051	mg/L
MW-19-1	1812884-06	Total Recoverable Potassium	5/3/2018	4.1	Y	y	v		1.0	0.10	mg/L
MW-19-1	1812884-06	Total Recoverable Calcium	5/3/2018	67	Y	y	v		0.10	0.014	mg/L
MW-19-2	1812884-05	Total Recoverable Iron	5/3/2018	370	Y	y	v		50	30	ug/L
MW-19-2	1812884-05	Total Recoverable Calcium	5/3/2018	140	Y	y	v		0.10	0.014	mg/L
MW-19-2	1812884-05	Total Recoverable Potassium	5/3/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-19-2	1812884-05	Total Recoverable Magnesium	5/3/2018	50	Y	y	v		0.050	0.019	mg/L
MW-19-2	1812884-05	Total Recoverable Sodium	5/3/2018	39	Y	y	v		0.50	0.051	mg/L
MW-19-3	1812884-04	Total Recoverable Iron	5/3/2018	160	Y	y	v		50	30	ug/L
MW-19-3	1812884-04	Total Recoverable Potassium	5/3/2018	2.6	Y	y	v		1.0	0.10	mg/L
MW-19-3	1812884-04	Total Recoverable Sodium	5/3/2018	30	Y	y	v		0.50	0.051	mg/L
MW-19-3	1812884-04	Total Recoverable Magnesium	5/3/2018	30	Y	y	v		0.050	0.019	mg/L
MW-19-3	1812884-04	Total Recoverable Calcium	5/3/2018	84	Y	y	v		0.10	0.014	mg/L

SDG: 18-12884

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1812884-03	Total Recoverable Iron	5/3/2018	68	Y	y	v		50	30	ug/L
MW-19-4	1812884-03	Total Recoverable Sodium	5/3/2018	31	Y	y	v		0.50	0.051	mg/L
MW-19-4	1812884-03	Total Recoverable Magnesium	5/3/2018	27	Y	y	v		0.050	0.019	mg/L
MW-19-4	1812884-03	Total Recoverable Calcium	5/3/2018	66	Y	y	v		0.10	0.014	mg/L
MW-19-4	1812884-03	Total Recoverable Potassium	5/3/2018	2.5	Y	y	v		1.0	0.10	mg/L
MW-19-5	1812884-02	Total Recoverable Iron	5/3/2018	240	Y	y	v		50	30	ug/L
MW-19-5	1812884-02	Total Recoverable Potassium	5/3/2018	2.4	Y	y	v		1.0	0.10	mg/L
MW-19-5	1812884-02	Total Recoverable Sodium	5/3/2018	31	Y	y	v		0.50	0.051	mg/L
MW-19-5	1812884-02	Total Recoverable Magnesium	5/3/2018	25	Y	y	v		0.050	0.019	mg/L
MW-19-5	1812884-02	Total Recoverable Calcium	5/3/2018	59	Y	y	v		0.10	0.014	mg/L
MW-21-2	1812884-14	Total Recoverable Sodium	5/3/2018	59	Y	y	v		0.50	0.051	mg/L
MW-21-2	1812884-14	Total Recoverable Potassium	5/3/2018	3.1	Y	y	v		1.0	0.10	mg/L
MW-21-2	1812884-14	Total Recoverable Magnesium	5/3/2018	51	Y	y	v		0.050	0.019	mg/L
MW-21-2	1812884-14	Total Recoverable Iron	5/3/2018	79	Y	y	v		50	30	ug/L
MW-21-2	1812884-14	Total Recoverable Calcium	5/3/2018	160	Y	y	v		0.10	0.014	mg/L
MW-21-3	1812884-12	Total Recoverable Iron	5/3/2018	130	Y	y	v		50	30	ug/L
MW-21-3	1812884-12	Total Recoverable Potassium	5/3/2018	3.6	Y	y	v		1.0	0.10	mg/L
MW-21-3	1812884-12	Total Recoverable Sodium	5/3/2018	57	Y	y	v		0.50	0.051	mg/L
MW-21-3	1812884-12	Total Recoverable Magnesium	5/3/2018	45	Y	y	v		0.050	0.019	mg/L
MW-21-3	1812884-12	Total Recoverable Calcium	5/3/2018	150	Y	y	v		0.10	0.014	mg/L
MW-21-4	1812884-15	Total Recoverable Magnesium	5/3/2018	28	Y	y	v		0.050	0.019	mg/L
MW-21-4	1812884-15	Total Recoverable Iron	5/3/2018	100	Y	y	v		50	30	ug/L
MW-21-4	1812884-15	Total Recoverable Sodium	5/3/2018	31	Y	y	v		0.50	0.051	mg/L
MW-21-4	1812884-15	Total Recoverable Calcium	5/3/2018	92	Y	y	v		0.10	0.014	mg/L
MW-21-4	1812884-15	Total Recoverable Potassium	5/3/2018	2.5	Y	y	v		1.0	0.10	mg/L

SDG: 18-12884

<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-21-5	1812884-11	Total Recoverable Sodium	5/3/2018	37	Y	y	v		0.50	0.051	mg/L
MW-21-5	1812884-11	Total Recoverable Calcium	5/3/2018	94	Y	y	v		0.10	0.014	mg/L
MW-21-5	1812884-11	Total Recoverable Magnesium	5/3/2018	30	Y	y	v		0.050	0.019	mg/L
MW-21-5	1812884-11	Total Recoverable Iron	5/3/2018	84	Y	y	v		50	30	ug/L
MW-21-5	1812884-11	Total Recoverable Potassium	5/3/2018	2.6	Y	y	v		1.0	0.10	mg/L

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
DUP-2-2Q18	1812884-13	Total Recoverable Chromium	5/2/2018	3	Y	n	u		3.0	0.50	ug/L
DUP-2-2Q18	1812884-13	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
EB-3-042018	1812884-07	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
EB-3-042018	1812884-07	Total Recoverable Chromium	4/30/2018	0.58	Y	y	v j		3.0	0.50	ug/L
EB-3-042018	1812884-07	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-14-1	1812884-10	Total Recoverable Chromium	4/30/2018	2.3	Y	y	v j		3.0	0.50	ug/L
MW-14-1	1812884-10	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-1	1812884-10	Total Recoverable Arsenic	4/30/2018	0.99	Y	y	v j		2.0	0.70	ug/L
MW-14-2	1812884-09	Total Recoverable Chromium	4/30/2018	3	Y	n	u		3.0	0.50	ug/L
MW-14-2	1812884-09	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-14-2	1812884-09	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-3	1812884-08	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-14-3	1812884-08	Total Recoverable Chromium	4/30/2018	0.71	Y	y	v j		3.0	0.50	ug/L
MW-14-3	1812884-08	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-19-1	1812884-06	Total Recoverable Chromium	4/30/2018	0.72	Y	y	v j		3.0	0.50	ug/L
MW-19-1	1812884-06	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L

SDG: 18-12884

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1812884-06	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-19-2	1812884-05	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-19-2	1812884-05	Total Recoverable Chromium	4/30/2018	2	Y	y	v j		3.0	0.50	ug/L
MW-19-2	1812884-05	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-19-3	1812884-04	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-19-3	1812884-04	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-19-3	1812884-04	Total Recoverable Chromium	4/30/2018	2.6	Y	y	v j		3.0	0.50	ug/L
MW-19-4	1812884-03	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-19-4	1812884-03	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-19-4	1812884-03	Total Recoverable Chromium	4/30/2018	1.8	Y	y	v j		3.0	0.50	ug/L
MW-19-5	1812884-02	Total Recoverable Chromium	4/30/2018	2.4	Y	y	v j		3.0	0.50	ug/L
MW-19-5	1812884-02	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-19-5	1812884-02	Total Recoverable Arsenic	4/30/2018	1.7	Y	y	v j		2.0	0.70	ug/L
MW-21-2	1812884-14	Total Recoverable Chromium	5/2/2018	0.66	Y	y	v j	U	3.0	0.50	ug/L
MW-21-2	1812884-14	Total Recoverable Lead	5/2/2018	1	Y	n	u	UJ	1.0	0.10	ug/L
MW-21-2	1812884-14	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-21-3	1812884-12	Total Recoverable Chromium	5/2/2018	0.61	Y	y	v j	U	3.0	0.50	ug/L
MW-21-3	1812884-12	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
MW-21-3	1812884-12	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-21-4	1812884-15	Total Recoverable Lead	5/2/2018	0.24	Y	y	v j	J	1.0	0.10	ug/L
MW-21-4	1812884-15	Total Recoverable Chromium	5/2/2018	1.7	Y	y	v j	U	3.0	0.50	ug/L
MW-21-4	1812884-15	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-21-5	1812884-11	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-21-5	1812884-11	Total Recoverable Chromium	4/30/2018	3	Y	n	u		3.0	0.50	ug/L
MW-21-5	1812884-11	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L

SDG: 18-12884

Analytical Method EPA-300.0

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-2Q18	1812884-13	Chloride	4/21/2018	130	Y	y	v		0.50	0.077	mg/L
DUP-2-2Q18	1812884-13	Nitrate as N	4/21/2018	10	Y	y	v		0.10	0.021	mg/L
DUP-2-2Q18	1812884-13	Sulfate	4/21/2018	160	Y	y	v		1.0	0.13	mg/L
EB-3-042018	1812884-07	Sulfate	4/21/2018	0.29	Y	y	v j		1.0	0.13	mg/L
EB-3-042018	1812884-07	Chloride	4/21/2018	0.21	Y	y	v j		0.50	0.077	mg/L
EB-3-042018	1812884-07	Nitrate as N	4/21/2018	0.031	Y	y	v j		0.10	0.021	mg/L
MW-14-1	1812884-10	Sulfate	4/21/2018	220	Y	y	v		1.0	0.13	mg/L
MW-14-1	1812884-10	Nitrate as N	4/21/2018	14	Y	y	v		0.10	0.021	mg/L
MW-14-1	1812884-10	Chloride	4/21/2018	140	Y	y	v		0.50	0.077	mg/L
MW-14-2	1812884-09	Chloride	4/21/2018	120	Y	y	v		0.50	0.077	mg/L
MW-14-2	1812884-09	Nitrate as N	4/21/2018	14	Y	y	v		0.10	0.021	mg/L
MW-14-2	1812884-09	Sulfate	4/21/2018	200	Y	y	v		1.0	0.13	mg/L
MW-14-3	1812884-08	Nitrate as N	4/21/2018	15	Y	y	v		0.10	0.021	mg/L
MW-14-3	1812884-08	Sulfate	4/21/2018	180	Y	y	v		1.0	0.13	mg/L
MW-14-3	1812884-08	Chloride	4/21/2018	110	Y	y	v		0.50	0.077	mg/L
MW-19-1	1812884-06	Sulfate	4/21/2018	54	Y	y	v		1.0	0.13	mg/L
MW-19-1	1812884-06	Nitrate as N	4/21/2018	0.98	Y	y	v		0.10	0.021	mg/L
MW-19-1	1812884-06	Chloride	4/21/2018	21	Y	y	v		0.50	0.077	mg/L
MW-19-2	1812884-05	Sulfate	4/21/2018	180	Y	y	v		1.0	0.13	mg/L
MW-19-2	1812884-05	Chloride	4/21/2018	130	Y	y	v		0.50	0.077	mg/L
MW-19-2	1812884-05	Nitrate as N	4/21/2018	11	Y	y	v		0.10	0.021	mg/L
MW-19-3	1812884-04	Sulfate	4/21/2018	85	Y	y	v		1.0	0.13	mg/L
MW-19-3	1812884-04	Nitrate as N	4/21/2018	10	Y	y	v		0.10	0.021	mg/L
MW-19-3	1812884-04	Chloride	4/21/2018	69	Y	y	v		0.50	0.077	mg/L
MW-19-4	1812884-03	Chloride	4/21/2018	51	Y	y	v		0.50	0.077	mg/L

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<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-19-4	1812884-03	Sulfate	4/21/2018	55	Y	y	v		1.0	0.13	mg/L
MW-19-4	1812884-03	Nitrate as N	4/21/2018	9	Y	y	v		0.10	0.021	mg/L
MW-19-5	1812884-02	Nitrate as N	4/21/2018	5.2	Y	y	v		0.10	0.021	mg/L
MW-19-5	1812884-02	Chloride	4/21/2018	51	Y	y	v		0.50	0.077	mg/L
MW-19-5	1812884-02	Sulfate	4/21/2018	70	Y	y	v		1.0	0.13	mg/L
MW-21-2	1812884-14	Nitrate as N	4/21/2018	5.3	Y	y	v		0.10	0.021	mg/L
MW-21-2	1812884-14	Chloride	4/21/2018	180	Y	y	v		0.50	0.077	mg/L
MW-21-2	1812884-14	Sulfate	4/21/2018	190	Y	y	v		1.0	0.13	mg/L
MW-21-3	1812884-12	Chloride	4/21/2018	130	Y	y	v		0.50	0.077	mg/L
MW-21-3	1812884-12	Nitrate as N	4/21/2018	10	Y	y	v		0.10	0.021	mg/L
MW-21-3	1812884-12	Sulfate	4/21/2018	160	Y	y	v		1.0	0.13	mg/L
MW-21-4	1812884-15	Chloride	4/21/2018	83	Y	y	v		0.50	0.077	mg/L
MW-21-4	1812884-15	Sulfate	4/21/2018	130	Y	y	v		1.0	0.13	mg/L
MW-21-4	1812884-15	Nitrate as N	4/21/2018	7.1	Y	y	v		0.10	0.021	mg/L
MW-21-5	1812884-11	Chloride	4/21/2018	81	Y	y	v		0.50	0.077	mg/L
MW-21-5	1812884-11	Nitrate as N	4/21/2018	6.8	Y	y	v		0.10	0.021	mg/L
MW-21-5	1812884-11	Sulfate	4/21/2018	130	Y	y	v		1.0	0.13	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	Perchlorate	5/8/2018	3.8	Y	y	v j		4.0	0.58	ug/L
EB-3-042018	1812884-07	Perchlorate	5/8/2018	4	Y	n	u		4.0	0.58	ug/L
MW-14-1	1812884-10	Perchlorate	5/8/2018	3	Y	y	v j		4.0	0.58	ug/L
MW-14-2	1812884-09	Perchlorate	5/8/2018	3.8	Y	y	v j		4.0	0.58	ug/L
MW-14-3	1812884-08	Perchlorate	5/8/2018	4.3	Y	y	v		4.0	0.58	ug/L



SDG: 18-12884

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-19-1	1812884-06	Perchlorate	5/8/2018	4	Y	n	u		4.0	0.58	ug/L
MW-19-2	1812884-05	Perchlorate	5/8/2018	3	Y	y	v j		4.0	0.58	ug/L
MW-19-3	1812884-04	Perchlorate	5/8/2018	4.7	Y	y	v		4.0	0.58	ug/L
MW-19-4	1812884-03	Perchlorate	5/8/2018	2.6	Y	y	v j		4.0	0.58	ug/L
MW-19-5	1812884-02	Perchlorate	5/8/2018	2.5	Y	y	v j		4.0	0.58	ug/L
MW-21-2	1812884-14	Perchlorate	5/8/2018	1.7	Y	y	v j		4.0	0.58	ug/L
MW-21-3	1812884-12	Perchlorate	5/8/2018	4	Y	n	u		4.0	0.58	ug/L
MW-21-4	1812884-15	Perchlorate	5/8/2018	2.6	Y	y	v j		4.0	0.58	ug/L
MW-21-5	1812884-11	Perchlorate	5/8/2018	2.5	Y	y	v j		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	Nitrite as N	4/21/2018	0.023	Y	y	v j		0.050	0.010	mg/L
EB-3-042018	1812884-07	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-14-1	1812884-10	Nitrite as N	4/21/2018	0.011	Y	y	v j		0.050	0.010	mg/L
MW-14-2	1812884-09	Nitrite as N	4/21/2018	0.52	Y	y	v		0.050	0.010	mg/L
MW-14-3	1812884-08	Nitrite as N	4/21/2018	0.018	Y	y	v j		0.050	0.010	mg/L
MW-19-1	1812884-06	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-19-2	1812884-05	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-19-3	1812884-04	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-19-4	1812884-03	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-19-5	1812884-02	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-21-2	1812884-14	Nitrite as N	4/21/2018	0.41	Y	y	v		0.050	0.010	mg/L
MW-21-3	1812884-12	Nitrite as N	4/21/2018	0.018	Y	y	v j		0.050	0.010	mg/L
MW-21-4	1812884-15	Nitrite as N	4/21/2018	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-21-5	1812884-11	Nitrite as N	4/21/2018	0.05	Y	n	u		0.050	0.010	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-2-2Q18	1812884-13	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-2-2Q18	1812884-13	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-2Q18	1812884-13	Chloroform	4/27/2018	0.54	Y	y	v		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-2Q18	1812884-13	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-2-2Q18	1812884-13	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-2-2Q18	1812884-13	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-2Q18	1812884-13	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-2Q18	1812884-13	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-2-2Q18	1812884-13	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
DUP-2-2Q18	1812884-13	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-2Q18	1812884-13	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-2Q18	1812884-13	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
DUP-2-2Q18	1812884-13	2-Nitropropane	4/27/2018	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
DUP-2-2Q18	1812884-13	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-2-2Q18	1812884-13	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-2-2Q18	1812884-13	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-2-2Q18	1812884-13	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
DUP-2-2Q18	1812884-13	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
DUP-2-2Q18	1812884-13	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
DUP-2-2Q18	1812884-13	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-2-2Q18	1812884-13	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-2-2Q18	1812884-13	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
DUP-2-2Q18	1812884-13	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-2Q18	1812884-13	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-2Q18	1812884-13	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-2-2Q18	1812884-13	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
DUP-2-2Q18	1812884-13	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
DUP-2-2Q18	1812884-13	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-2-2Q18	1812884-13	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-2-2Q18	1812884-13	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-2Q18	1812884-13	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
DUP-2-2Q18	1812884-13	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
DUP-2-2Q18	1812884-13	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
DUP-2-2Q18	1812884-13	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-2-2Q18	1812884-13	Trichloroethene	4/27/2018	1.1	Y	y	v		0.50	0.19	ug/L
DUP-2-2Q18	1812884-13	Tetrahydrofuran	4/27/2018	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
DUP-2-2Q18	1812884-13	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-2-2Q18	1812884-13	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-2Q18	1812884-13	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
DUP-2-2Q18	1812884-13	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
DUP-2-2Q18	1812884-13	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
DUP-2-2Q18	1812884-13	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
DUP-2-2Q18	1812884-13	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
DUP-2-2Q18	1812884-13	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-2-2Q18	1812884-13	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-2Q18	1812884-13	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-2Q18	1812884-13	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-2Q18	1812884-13	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-2Q18	1812884-13	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-2Q18	1812884-13	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-2-2Q18	1812884-13	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-2Q18	1812884-13	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-2-2Q18	1812884-13	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-2-2Q18	1812884-13	1,2-Dibromo-3-chloropropane	4/27/2018	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
DUP-2-2Q18	1812884-13	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-2Q18	1812884-13	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-2Q18	1812884-13	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-2Q18	1812884-13	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-2Q18	1812884-13	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-2Q18	1812884-13	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-2Q18	1812884-13	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	Tetrachloroethene	4/27/2018	1.4	Y	y	v		0.50	0.23	ug/L
DUP-2-2Q18	1812884-13	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-2Q18	1812884-13	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-2-2Q18	1812884-13	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-2-2Q18	1812884-13	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-2-2Q18	1812884-13	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-2-2Q18	1812884-13	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-2Q18	1812884-13	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-2Q18	1812884-13	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-042018	1812884-07	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
EB-3-042018	1812884-07	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-3-042018	1812884-07	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
EB-3-042018	1812884-07	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-042018	1812884-07	Styrene	4/27/2018	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
EB-3-042018	1812884-07	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-042018	1812884-07	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-042018	1812884-07	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
EB-3-042018	1812884-07	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-042018	1812884-07	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-042018	1812884-07	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-042018	1812884-07	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-042018	1812884-07	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-042018	1812884-07	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
EB-3-042018	1812884-07	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
EB-3-042018	1812884-07	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-042018	1812884-07	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
EB-3-042018	1812884-07	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
EB-3-042018	1812884-07	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
EB-3-042018	1812884-07	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-042018	1812884-07	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-042018	1812884-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-042018	1812884-07	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-042018	1812884-07	1,1,2-Trichloroethane	4/27/2018	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-3-042018	1812884-07	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-042018	1812884-07	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-042018	1812884-07	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-042018	1812884-07	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-042018	1812884-07	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-042018	1812884-07	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-042018	1812884-07	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-3-042018	1812884-07	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-042018	1812884-07	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-042018	1812884-07	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-3-042018	1812884-07	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-3-042018	1812884-07	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-3-042018	1812884-07	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-042018	1812884-07	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	cis-1,2-Dichloroethene	4/27/2018	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
EB-3-042018	1812884-07	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-042018	1812884-07	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-042018	1812884-07	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-042018	1812884-07	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-042018	1812884-07	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-042018	1812884-07	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-042018	1812884-07	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-042018	1812884-07	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
EB-3-042018	1812884-07	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-042018	1812884-07	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-3-042018	1812884-07	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-042018	1812884-07	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
EB-3-042018	1812884-07	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
EB-3-042018	1812884-07	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-3-042018	1812884-07	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-042018	1812884-07	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
EB-3-042018	1812884-07	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
EB-3-042018	1812884-07	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
EB-3-042018	1812884-07	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-042018	1812884-07	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
EB-3-042018	1812884-07	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
EB-3-042018	1812884-07	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
EB-3-042018	1812884-07	p-Isopropyltoluene	4/27/2018	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-3-042018	1812884-07	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
EB-3-042018	1812884-07	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
EB-3-042018	1812884-07	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
EB-3-042018	1812884-07	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
EB-3-042018	1812884-07	Toluene-d8 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
EB-3-042018	1812884-07	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
EB-3-042018	1812884-07	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
EB-3-042018	1812884-07	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
EB-3-042018	1812884-07	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-1	1812884-10	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-1	1812884-10	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-1	1812884-10	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1812884-10	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1812884-10	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-1	1812884-10	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1812884-10	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1812884-10	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-1	1812884-10	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	Chloroform	4/27/2018	0.29	Y	y	v j		0.50	0.14	ug/L
MW-14-1	1812884-10	Bromoform	4/27/2018	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
MW-14-1	1812884-10	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-1	1812884-10	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-14-1	1812884-10	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-1	1812884-10	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-1	1812884-10	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1812884-10	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-1	1812884-10	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1812884-10	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-1	1812884-10	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1812884-10	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-1	1812884-10	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-1	1812884-10	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-1	1812884-10	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-1	1812884-10	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-1	1812884-10	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-1	1812884-10	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1812884-10	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-1	1812884-10	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-1	1812884-10	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	Methylene chloride	4/27/2018	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-14-1	1812884-10	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-1	1812884-10	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-1	1812884-10	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-14-1	1812884-10	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1812884-10	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-1	1812884-10	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-14-1	1812884-10	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-1	1812884-10	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-1	1812884-10	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-1	1812884-10	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-1	1812884-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1812884-10	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-1	1812884-10	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1812884-10	Trichloroethene	4/27/2018	1.2	Y	y	v		0.50	0.19	ug/L
MW-14-1	1812884-10	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1812884-10	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1812884-10	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-1	1812884-10	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-1	1812884-10	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1812884-10	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-1	1812884-10	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-1	1812884-10	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-1	1812884-10	1,2,4-Trimethylbenzene	4/27/2018	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-14-1	1812884-10	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-1	1812884-10	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-1	1812884-10	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-1	1812884-10	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-1	1812884-10	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-1	1812884-10	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-1	1812884-10	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-1	1812884-10	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-1	1812884-10	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-1	1812884-10	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-1	1812884-10	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-1	1812884-10	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-14-1	1812884-10	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-1	1812884-10	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-1	1812884-10	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-1	1812884-10	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-1	1812884-10	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-1	1812884-10	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-1	1812884-10	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-1	1812884-10	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-1	1812884-10	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-1	1812884-10	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-1	1812884-10	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-1	1812884-10	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-2	1812884-09	1,1,2-Trichloroethane	4/27/2018	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-14-2	1812884-09	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-2	1812884-09	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-2	1812884-09	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-14-2	1812884-09	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1812884-09	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-2	1812884-09	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-2	1812884-09	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-2	1812884-09	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1812884-09	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-2	1812884-09	Trichloroethene	4/27/2018	1.2	Y	y	v		0.50	0.19	ug/L
MW-14-2	1812884-09	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-2	1812884-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1812884-09	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-2	1812884-09	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1812884-09	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1812884-09	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-2	1812884-09	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-2	1812884-09	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-14-2	1812884-09	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-2	1812884-09	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-2	1812884-09	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-2	1812884-09	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-2	1812884-09	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-2	1812884-09	Tetrahydrofuran	4/27/2018	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-14-2	1812884-09	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-2	1812884-09	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-2	1812884-09	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1812884-09	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-2	1812884-09	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1812884-09	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-2	1812884-09	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-2	1812884-09	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1812884-09	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-2	1812884-09	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1812884-09	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1812884-09	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1812884-09	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-2	1812884-09	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1812884-09	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-2	1812884-09	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1812884-09	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-2	1812884-09	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1812884-09	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1812884-09	Chloroform	4/27/2018	0.43	Y	y	v j		0.50	0.14	ug/L
MW-14-2	1812884-09	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	n-Butylbenzene	4/27/2018	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-14-2	1812884-09	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-2	1812884-09	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1812884-09	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1812884-09	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1812884-09	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-2	1812884-09	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-2	1812884-09	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-2	1812884-09	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-2	1812884-09	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-2	1812884-09	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1812884-09	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1812884-09	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1812884-09	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	Tetrachloroethene	4/27/2018	0.47	Y	y	v j		0.50	0.23	ug/L
MW-14-2	1812884-09	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1812884-09	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1812884-09	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1812884-09	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-2	1812884-09	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1812884-09	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1812884-09	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1812884-09	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1812884-09	Isopropylbenzene	4/27/2018	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-14-2	1812884-09	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1812884-09	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1812884-09	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1812884-09	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1812884-09	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1812884-09	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1812884-09	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1812884-09	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1812884-09	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1812884-09	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1812884-08	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1812884-08	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1812884-08	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	1,1-Dichloroethane	4/27/2018	0.37	Y	y	v j		0.50	0.15	ug/L
MW-14-3	1812884-08	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1812884-08	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1812884-08	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	1,2-Dichlorobenzene	4/27/2018	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-14-3	1812884-08	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1812884-08	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-3	1812884-08	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1812884-08	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1812884-08	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1812884-08	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1812884-08	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1812884-08	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-3	1812884-08	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-3	1812884-08	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-3	1812884-08	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1812884-08	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1812884-08	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1812884-08	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-3	1812884-08	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-3	1812884-08	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1812884-08	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1812884-08	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	Chlorobenzene	4/27/2018	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-14-3	1812884-08	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	Chloroform	4/27/2018	0.48	Y	y	v j		0.50	0.14	ug/L
MW-14-3	1812884-08	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1812884-08	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-3	1812884-08	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1812884-08	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1812884-08	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-3	1812884-08	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-3	1812884-08	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1812884-08	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-14-3	1812884-08	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-14-3	1812884-08	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-14-3	1812884-08	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-14-3	1812884-08	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-3	1812884-08	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-3	1812884-08	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-14-3	1812884-08	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-3	1812884-08	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1812884-08	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-3	1812884-08	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-14-3	1812884-08	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-14-3	1812884-08	Chloroacetonitrile	4/27/2018	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-14-3	1812884-08	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-14-3	1812884-08	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-14-3	1812884-08	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-14-3	1812884-08	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-14-3	1812884-08	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-14-3	1812884-08	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-3	1812884-08	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-14-3	1812884-08	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1812884-08	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1812884-08	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	Tetrachloroethene	4/27/2018	0.57	Y	y	v		0.50	0.23	ug/L
MW-14-3	1812884-08	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1812884-08	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1812884-08	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-3	1812884-08	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1812884-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1812884-08	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1812884-08	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1812884-08	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1812884-08	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-14-3	1812884-08	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-3	1812884-08	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-3	1812884-08	t-Amyl Methyl ether	4/27/2018	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-14-3	1812884-08	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-14-3	1812884-08	Trichloroethene	4/27/2018	0.96	Y	y	v		0.50	0.19	ug/L
MW-14-3	1812884-08	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-14-3	1812884-08	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1812884-06	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1812884-06	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1812884-06	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1812884-06	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-1	1812884-06	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1812884-06	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1812884-06	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1812884-06	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1812884-06	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1812884-06	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	2,2-Dichloropropane	4/27/2018	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-19-1	1812884-06	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1812884-06	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1812884-06	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1812884-06	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-1	1812884-06	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-1	1812884-06	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1812884-06	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1812884-06	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	Chloroform	4/27/2018	0.63	Y	y	v		0.50	0.14	ug/L
MW-19-1	1812884-06	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-1	1812884-06	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-1	1812884-06	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-1	1812884-06	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-1	1812884-06	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-1	1812884-06	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-1	1812884-06	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-1	1812884-06	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-1	1812884-06	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-1	1812884-06	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-1	1812884-06	Naphthalene	4/27/2018	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
MW-19-1	1812884-06	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1812884-06	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-19-1	1812884-06	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-19-1	1812884-06	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-19-1	1812884-06	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-19-1	1812884-06	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-1	1812884-06	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-19-1	1812884-06	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-19-1	1812884-06	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-1	1812884-06	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1812884-06	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-1	1812884-06	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-1	1812884-06	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-1	1812884-06	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-19-1	1812884-06	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-19-1	1812884-06	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-19-1	1812884-06	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-19-1	1812884-06	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-19-1	1812884-06	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-19-1	1812884-06	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-19-1	1812884-06	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-1	1812884-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1812884-06	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1812884-06	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	Tetrachloroethene	4/27/2018	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-19-1	1812884-06	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1812884-06	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1812884-06	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1812884-06	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1812884-06	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1812884-06	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-1	1812884-06	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-1	1812884-06	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1812884-06	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1812884-06	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1812884-06	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1812884-06	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-19-1	1812884-06	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-1	1812884-06	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-1	1812884-06	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1812884-06	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-19-1	1812884-06	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-1	1812884-06	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1812884-05	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-19-2	1812884-05	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	1,2-Dichloroethane	4/27/2018	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-19-2	1812884-05	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-2	1812884-05	cis-1,2-Dichloroethene	4/27/2018	0.35	Y	y	v j		0.50	0.27	ug/L
MW-19-2	1812884-05	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1812884-05	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1812884-05	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1812884-05	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-2	1812884-05	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1812884-05	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1812884-05	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1812884-05	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1812884-05	Methyl t-butyl ether	4/27/2018	0.16	Y	y	v j		0.50	0.14	ug/L
MW-19-2	1812884-05	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1812884-05	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-2	1812884-05	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1812884-05	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-2	1812884-05	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1812884-05	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-2	1812884-05	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-2	1812884-05	n-Butylbenzene	4/27/2018	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-19-2	1812884-05	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1812884-05	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1812884-05	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-2	1812884-05	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1812884-05	Chloroform	4/27/2018	2.2	Y	y	v		0.50	0.14	ug/L
MW-19-2	1812884-05	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1812884-05	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-2	1812884-05	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-2	1812884-05	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-2	1812884-05	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-2	1812884-05	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1812884-05	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1812884-05	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-2	1812884-05	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1812884-05	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-19-2	1812884-05	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-19-2	1812884-05	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-19-2	1812884-05	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-19-2	1812884-05	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-2	1812884-05	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-19-2	1812884-05	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1812884-05	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-2	1812884-05	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	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-19-2	1812884-05	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-2	1812884-05	Toluene-d8 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
MW-19-2	1812884-05	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-19-2	1812884-05	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-19-2	1812884-05	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-19-2	1812884-05	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-19-2	1812884-05	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-19-2	1812884-05	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1812884-05	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-19-2	1812884-05	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-19-2	1812884-05	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-2	1812884-05	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-19-2	1812884-05	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1812884-05	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1812884-05	Tetrachloroethene	4/27/2018	1.8	Y	y	v		0.50	0.23	ug/L
MW-19-2	1812884-05	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1812884-05	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1812884-05	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1812884-05	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1812884-05	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1812884-05	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-2	1812884-05	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-2	1812884-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1812884-05	1,2,4-Trimethylbenzene	4/27/2018	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-19-2	1812884-05	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1812884-05	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1812884-05	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-19-2	1812884-05	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-2	1812884-05	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-19-2	1812884-05	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-2	1812884-05	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-2	1812884-05	Trichloroethene	4/27/2018	0.89	Y	y	v		0.50	0.19	ug/L
MW-19-2	1812884-05	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-3	1812884-04	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-19-3	1812884-04	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1812884-04	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-3	1812884-04	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-3	1812884-04	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-19-3	1812884-04	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1812884-04	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-19-3	1812884-04	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-3	1812884-04	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-3	1812884-04	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1812884-04	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1812884-04	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1812884-04	1,2,4-Trichlorobenzene	4/27/2018	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-19-3	1812884-04	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1812884-04	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	Tetrachloroethene	4/27/2018	0.44	Y	y	v j		0.50	0.23	ug/L
MW-19-3	1812884-04	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1812884-04	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-3	1812884-04	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-19-3	1812884-04	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-19-3	1812884-04	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-19-3	1812884-04	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-19-3	1812884-04	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-19-3	1812884-04	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-19-3	1812884-04	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-19-3	1812884-04	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1812884-04	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-3	1812884-04	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-19-3	1812884-04	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-3	1812884-04	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-19-3	1812884-04	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-3	1812884-04	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-19-3	1812884-04	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-19-3	1812884-04	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-19-3	1812884-04	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1812884-04	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-3	1812884-04	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	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-19-3	1812884-04	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-3	1812884-04	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-19-3	1812884-04	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-3	1812884-04	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-3	1812884-04	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-3	1812884-04	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-3	1812884-04	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-3	1812884-04	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1812884-04	Chloroform	4/27/2018	1.4	Y	y	v		0.50	0.14	ug/L
MW-19-3	1812884-04	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1812884-04	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1812884-04	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1812884-04	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-3	1812884-04	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-3	1812884-04	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1812884-04	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1812884-04	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1812884-04	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	2,2-Dichloropropane	4/27/2018	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-19-3	1812884-04	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-3	1812884-04	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-3	1812884-04	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1812884-04	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1812884-04	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1812884-04	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1812884-04	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1812884-04	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-3	1812884-04	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1812884-04	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1812884-04	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1812884-04	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1812884-04	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1812884-04	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-3	1812884-04	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1812884-04	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-19-3	1812884-04	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-4	1812884-03	Ethylbenzene	4/27/2018	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-19-4	1812884-03	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1812884-03	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1812884-03	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1812884-03	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1812884-03	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-4	1812884-03	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1812884-03	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-4	1812884-03	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-4	1812884-03	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-4	1812884-03	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1812884-03	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1812884-03	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1812884-03	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	Bromochloromethane	4/27/2018	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
MW-19-4	1812884-03	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1812884-03	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-4	1812884-03	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-4	1812884-03	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1812884-03	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1812884-03	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-4	1812884-03	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	Chloroform	4/27/2018	0.54	Y	y	v		0.50	0.14	ug/L
MW-19-4	1812884-03	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1812884-03	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-4	1812884-03	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-4	1812884-03	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-4	1812884-03	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-4	1812884-03	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1812884-03	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1812884-03	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1812884-03	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1812884-03	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-19-4	1812884-03	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-19-4	1812884-03	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-19-4	1812884-03	Methyl iodide	4/27/2018	2	Y	n	u	UJ	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
MW-19-4	1812884-03	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-19-4	1812884-03	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-4	1812884-03	Tetrachloroethene	4/27/2018	0.37	Y	y	v j		0.50	0.23	ug/L
MW-19-4	1812884-03	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-19-4	1812884-03	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-4	1812884-03	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-4	1812884-03	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-4	1812884-03	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-4	1812884-03	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
MW-19-4	1812884-03	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-4	1812884-03	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-19-4	1812884-03	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-19-4	1812884-03	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-19-4	1812884-03	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-19-4	1812884-03	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-19-4	1812884-03	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-19-4	1812884-03	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1812884-03	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1812884-03	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-19-4	1812884-03	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-4	1812884-03	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1812884-03	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1812884-03	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1812884-03	Trichloroethene	4/27/2018	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-19-4	1812884-03	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-4	1812884-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1812884-03	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-4	1812884-03	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1812884-03	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-4	1812884-03	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-19-4	1812884-03	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1812884-03	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-4	1812884-03	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-19-4	1812884-03	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1812884-03	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1812884-03	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-4	1812884-03	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-5	1812884-02	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-19-5	1812884-02	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-5	1812884-02	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-5	1812884-02	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-19-5	1812884-02	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-5	1812884-02	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-19-5	1812884-02	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-19-5	1812884-02	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-19-5	1812884-02	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-19-5	1812884-02	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1812884-02	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	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	1812884-02	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-19-5	1812884-02	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-5	1812884-02	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1812884-02	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-19-5	1812884-02	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-19-5	1812884-02	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-19-5	1812884-02	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-19-5	1812884-02	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-19-5	1812884-02	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-19-5	1812884-02	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-5	1812884-02	Toluene-d8 (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L
MW-19-5	1812884-02	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-5	1812884-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1812884-02	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1812884-02	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1812884-02	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1812884-02	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1812884-02	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-5	1812884-02	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1812884-02	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1812884-02	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	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	1812884-02	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1812884-02	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-5	1812884-02	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1812884-02	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1812884-02	Tetrachloroethene	4/27/2018	0.3	Y	y	v j		0.50	0.23	ug/L
MW-19-5	1812884-02	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1812884-02	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1812884-02	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1812884-02	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1812884-02	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1812884-02	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-5	1812884-02	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1812884-02	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1812884-02	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-5	1812884-02	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-5	1812884-02	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-19-5	1812884-02	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1812884-02	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1812884-02	1-Chlorobutane	4/27/2018	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-19-5	1812884-02	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1812884-02	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1812884-02	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-5	1812884-02	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-5	1812884-02	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-5	1812884-02	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-5	1812884-02	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-5	1812884-02	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1812884-02	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-5	1812884-02	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1812884-02	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1812884-02	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1812884-02	Chloroform	4/27/2018	2.4	Y	y	v		0.50	0.14	ug/L
MW-19-5	1812884-02	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-5	1812884-02	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-5	1812884-02	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1812884-02	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-5	1812884-02	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-19-5	1812884-02	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1812884-02	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1812884-02	1,2,4-Trimethylbenzene	4/27/2018	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-19-5	1812884-02	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-5	1812884-02	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1812884-02	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-19-5	1812884-02	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-2	1812884-14	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-21-2	1812884-14	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-21-2	1812884-14	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-2	1812884-14	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1812884-14	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-2	1812884-14	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-21-2	1812884-14	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-2	1812884-14	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1812884-14	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-21-2	1812884-14	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-21-2	1812884-14	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-2	1812884-14	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1812884-14	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-21-2	1812884-14	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-2	1812884-14	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-21-2	1812884-14	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-21-2	1812884-14	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-21-2	1812884-14	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-21-2	1812884-14	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-21-2	1812884-14	Nitrobenzene	4/27/2018	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-21-2	1812884-14	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-21-2	1812884-14	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1812884-14	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1812884-14	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1812884-14	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1812884-14	Tetrachloroethene	4/27/2018	0.51	Y	y	v		0.50	0.23	ug/L
MW-21-2	1812884-14	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1812884-14	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1812884-14	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1812884-14	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-2	1812884-14	Trichloroethene	4/27/2018	0.22	Y	y	v j		0.50	0.19	ug/L
MW-21-2	1812884-14	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-2	1812884-14	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-2	1812884-14	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1812884-14	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-21-2	1812884-14	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-2	1812884-14	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-21-2	1812884-14	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1812884-14	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-21-2	1812884-14	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-2	1812884-14	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1812884-14	Hexachlorobutadiene	4/27/2018	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-21-2	1812884-14	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1812884-14	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1812884-14	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1812884-14	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1812884-14	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1812884-14	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1812884-14	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1812884-14	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1812884-14	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1812884-14	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1812884-14	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1812884-14	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1812884-14	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1812884-14	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-21-2	1812884-14	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-2	1812884-14	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1812884-14	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1812884-14	1,1-Dichloroethane	4/27/2018	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-21-2	1812884-14	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-21-2	1812884-14	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1812884-14	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1812884-14	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1812884-14	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-2	1812884-14	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1812884-14	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1812884-14	Chloroform	4/27/2018	0.26	Y	y	v j		0.50	0.14	ug/L
MW-21-2	1812884-14	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-2	1812884-14	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-2	1812884-14	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1812884-14	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-2	1812884-14	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1812884-14	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1812884-14	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1812884-14	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-2	1812884-14	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-3	1812884-12	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1812884-12	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1812884-12	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	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-21-3	1812884-12	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-21-3	1812884-12	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-21-3	1812884-12	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-21-3	1812884-12	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1812884-12	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-21-3	1812884-12	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-3	1812884-12	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-21-3	1812884-12	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-3	1812884-12	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-21-3	1812884-12	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1812884-12	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-3	1812884-12	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-3	1812884-12	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-21-3	1812884-12	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-3	1812884-12	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1812884-12	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1812884-12	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1812884-12	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1812884-12	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1812884-12	1,1-Dichloropropene	4/27/2018	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-21-3	1812884-12	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1812884-12	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1812884-12	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1812884-12	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1812884-12	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1812884-12	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	Tetrachloroethene	4/27/2018	1.1	Y	y	v		0.50	0.23	ug/L
MW-21-3	1812884-12	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1812884-12	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1812884-12	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1812884-12	Trichloroethene	4/27/2018	0.89	Y	y	v		0.50	0.19	ug/L
MW-21-3	1812884-12	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1812884-12	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-3	1812884-12	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1812884-12	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-3	1812884-12	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-3	1812884-12	Dibromochloromethane	4/27/2018	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-21-3	1812884-12	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-3	1812884-12	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1812884-12	Chloroform	4/27/2018	0.48	Y	y	v j		0.50	0.14	ug/L
MW-21-3	1812884-12	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1812884-12	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1812884-12	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-3	1812884-12	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1812884-12	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1812884-12	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-3	1812884-12	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1812884-12	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1812884-12	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1812884-12	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-3	1812884-12	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-21-3	1812884-12	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1812884-12	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-21-3	1812884-12	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1812884-12	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1812884-12	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-21-3	1812884-12	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-21-3	1812884-12	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-21-3	1812884-12	Dichlorodifluoromethane	4/27/2018	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-21-3	1812884-12	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-21-3	1812884-12	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L	
MW-21-3	1812884-12	4-Bromofluorobenzene (Surrogate)	4/27/2018	9.7	Y	y	v s				ug/L	
MW-21-3	1812884-12	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L	
MW-21-3	1812884-12	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L	
MW-21-3	1812884-12	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-21-3	1812884-12	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L	
MW-21-3	1812884-12	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L	
MW-21-3	1812884-12	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L	
MW-21-4	1812884-15	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L	
MW-21-4	1812884-15	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-21-4	1812884-15	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-21-4	1812884-15	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-21-4	1812884-15	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-21-4	1812884-15	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-21-4	1812884-15	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-21-4	1812884-15	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-21-4	1812884-15	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L	
MW-21-4	1812884-15	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L	
MW-21-4	1812884-15	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L	
MW-21-4	1812884-15	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L	
MW-21-4	1812884-15	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-21-4	1812884-15	Toluene-d8 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L	
MW-21-4	1812884-15	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-21-4	1812884-15	o-Xylene	4/27/2018	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
MW-21-4	1812884-15	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-4	1812884-15	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1812884-15	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1812884-15	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1812884-15	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1812884-15	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1812884-15	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1812884-15	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1812884-15	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1812884-15	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1812884-15	4-Bromofluorobenzene (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-21-4	1812884-15	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1812884-15	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1812884-15	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1812884-15	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1812884-15	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1812884-15	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-21-4	1812884-15	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1812884-15	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1812884-15	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-21-4	1812884-15	1,3-Dichloropropane	4/27/2018	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	1812884-15	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1812884-15	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1812884-15	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-4	1812884-15	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1812884-15	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1812884-15	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-4	1812884-15	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1812884-15	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-4	1812884-15	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1812884-15	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1812884-15	Chloroform	4/27/2018	5.2	Y	y	v		0.50	0.14	ug/L
MW-21-4	1812884-15	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-4	1812884-15	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1812884-15	Tetrachloroethene	4/27/2018	0.67	Y	y	v		0.50	0.23	ug/L
MW-21-4	1812884-15	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-21-4	1812884-15	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1812884-15	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-4	1812884-15	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-4	1812884-15	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-21-4	1812884-15	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-4	1812884-15	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1812884-15	2-Hexanone	4/27/2018	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-21-4	1812884-15	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-21-4	1812884-15	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-21-4	1812884-15	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-21-4	1812884-15	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-4	1812884-15	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-21-4	1812884-15	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-4	1812884-15	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1812884-15	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-4	1812884-15	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-4	1812884-15	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-4	1812884-15	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-4	1812884-15	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-21-4	1812884-15	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1812884-15	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1812884-15	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1812884-15	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1812884-15	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-4	1812884-15	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1812884-15	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1812884-15	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1812884-15	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1812884-15	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-21-4	1812884-15	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1812884-15	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-5	1812884-11	1,1-Dichloropropene	4/27/2018	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-21-5	1812884-11	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-21-5	1812884-11	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-21-5	1812884-11	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-21-5	1812884-11	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-21-5	1812884-11	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-5	1812884-11	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-21-5	1812884-11	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-21-5	1812884-11	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-5	1812884-11	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-21-5	1812884-11	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1812884-11	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1812884-11	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1812884-11	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1812884-11	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1812884-11	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
MW-21-5	1812884-11	Toluene-d8 (Surrogate)	4/27/2018	10	Y	y	v s				ug/L
MW-21-5	1812884-11	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1812884-11	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-5	1812884-11	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	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-21-5	1812884-11	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1812884-11	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1812884-11	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1812884-11	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-5	1812884-11	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1812884-11	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1812884-11	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-21-5	1812884-11	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1812884-11	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-5	1812884-11	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1812884-11	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
MW-21-5	1812884-11	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-5	1812884-11	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-5	1812884-11	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-5	1812884-11	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-5	1812884-11	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1812884-11	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-21-5	1812884-11	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1812884-11	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1812884-11	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	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-21-5	1812884-11	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1812884-11	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1812884-11	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1812884-11	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	Tetrachloroethene	4/27/2018	0.77	Y	y	v		0.50	0.23	ug/L
MW-21-5	1812884-11	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1812884-11	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1812884-11	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1812884-11	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
MW-21-5	1812884-11	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1812884-11	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-5	1812884-11	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1812884-11	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-5	1812884-11	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1812884-11	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-5	1812884-11	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1812884-11	Chloroform	4/27/2018	5.1	Y	y	v		0.50	0.14	ug/L
MW-21-5	1812884-11	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1812884-11	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1812884-11	Methylene chloride	4/27/2018	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-21-5	1812884-11	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L
MW-21-5	1812884-11	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1812884-11	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L
MW-21-5	1812884-11	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1812884-11	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1812884-11	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
MW-21-5	1812884-11	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-5	1812884-11	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-5	1812884-11	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1812884-11	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
MW-21-5	1812884-11	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-3-042018	1812884-01	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-3-042018	1812884-01	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
TB-3-042018	1812884-01	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
TB-3-042018	1812884-01	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
TB-3-042018	1812884-01	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
TB-3-042018	1812884-01	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-042018	1812884-01	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-3-042018	1812884-01	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
TB-3-042018	1812884-01	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-042018	1812884-01	Tetrahydrofuran	4/27/2018	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
TB-3-042018	1812884-01	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
TB-3-042018	1812884-01	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
TB-3-042018	1812884-01	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u		5.0	1.8	ug/L
TB-3-042018	1812884-01	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
TB-3-042018	1812884-01	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
TB-3-042018	1812884-01	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-042018	1812884-01	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
TB-3-042018	1812884-01	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
TB-3-042018	1812884-01	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-042018	1812884-01	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
TB-3-042018	1812884-01	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
TB-3-042018	1812884-01	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
TB-3-042018	1812884-01	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-042018	1812884-01	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-042018	1812884-01	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-3-042018	1812884-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-042018	1812884-01	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-042018	1812884-01	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-042018	1812884-01	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-042018	1812884-01	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-042018	1812884-01	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-042018	1812884-01	1,2-Dichloroethane	4/27/2018	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
TB-3-042018	1812884-01	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-042018	1812884-01	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-042018	1812884-01	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-042018	1812884-01	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-042018	1812884-01	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-042018	1812884-01	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
TB-3-042018	1812884-01	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-042018	1812884-01	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-3-042018	1812884-01	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-042018	1812884-01	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-3-042018	1812884-01	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-042018	1812884-01	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-042018	1812884-01	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-042018	1812884-01	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-042018	1812884-01	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-042018	1812884-01	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-042018	1812884-01	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-042018	1812884-01	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-042018	1812884-01	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	Isopropylbenzene	4/27/2018	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-3-042018	1812884-01	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-042018	1812884-01	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-042018	1812884-01	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-042018	1812884-01	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-042018	1812884-01	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-042018	1812884-01	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-042018	1812884-01	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-3-042018	1812884-01	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-042018	1812884-01	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-042018	1812884-01	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-3-042018	1812884-01	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-042018	1812884-01	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-042018	1812884-01	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-042018	1812884-01	Methyl acrylate	4/27/2018	0	Y	y	v				ug/L
TB-3-042018	1812884-01	1,2-Dichloroethane-d4 (Surrogate)	4/27/2018	9.9	Y	y	v s				ug/L
TB-3-042018	1812884-01	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-042018	1812884-01	Toluene-d8 (Surrogate)	4/27/2018	9.8	Y	y	v s				ug/L
TB-3-042018	1812884-01	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-042018	1812884-01	2-Nitropropane	4/27/2018	0	Y	y	v				ug/L
TB-3-042018	1812884-01	4-Bromofluorobenzene (Surrogate)	4/27/2018	11	Y	y	v s				ug/L
TB-3-042018	1812884-01	Nitrobenzene	4/27/2018	0	Y	y	v				ug/L

SDG: 18-12884

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
TB-3-042018	1812884-01	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-042018	1812884-01	Chloroacetonitrile	4/27/2018	0	Y	y	v				ug/L
TB-3-042018	1812884-01	1-Chlorobutane	4/27/2018	0	Y	y	v				ug/L
TB-3-042018	1812884-01	1,1-Dichloropropanone	4/27/2018	0	Y	y	v				ug/L

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-3-042018	1812884-07	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-14-1	1812884-10	Hexavalent Chromium	4/20/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
MW-14-2	1812884-09	Hexavalent Chromium	4/20/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-14-3	1812884-08	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-19-1	1812884-06	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-19-2	1812884-05	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-19-3	1812884-04	Hexavalent Chromium	4/20/2018	0.002	Y	y	v		0.0020	0.0007	mg/L
MW-19-4	1812884-03	Hexavalent Chromium	4/20/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
MW-19-5	1812884-02	Hexavalent Chromium	4/20/2018	0.0019	Y	y	v j		0.0020	0.0007	mg/L
MW-21-2	1812884-14	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-3	1812884-12	Hexavalent Chromium	4/20/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-4	1812884-15	Hexavalent Chromium	4/20/2018	0.0013	Y	y	v j		0.0020	0.0007	mg/L
MW-21-5	1812884-11	Hexavalent Chromium	4/20/2018	0.002	Y	y	v		0.0020	0.0007	mg/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-2-2Q18	1812884-13	Bicarbonate	5/1/2018	360	Y	y	v		10	10	mg/L
DUP-2-2Q18	1812884-13	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L



SDG: 18-12884

Analytical Method SM-2320B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-2Q18	1812884-13	Total Alkalinity as CaCO3	5/1/2018	300	Y	y	v		8.2	8.2	mg/L
EB-3-042018	1812884-07	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
EB-3-042018	1812884-07	Total Alkalinity as CaCO3	5/1/2018	4.1	Y	n	u		4.1	4.1	mg/L
EB-3-042018	1812884-07	Bicarbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-14-1	1812884-10	Bicarbonate	5/1/2018	260	Y	y	v		10	10	mg/L
MW-14-1	1812884-10	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-14-1	1812884-10	Total Alkalinity as CaCO3	5/1/2018	210	Y	y	v		8.2	8.2	mg/L
MW-14-2	1812884-09	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-14-2	1812884-09	Total Alkalinity as CaCO3	5/1/2018	250	Y	y	v		8.2	8.2	mg/L
MW-14-2	1812884-09	Bicarbonate	5/1/2018	300	Y	y	v		10	10	mg/L
MW-14-3	1812884-08	Bicarbonate	5/1/2018	290	Y	y	v		10	10	mg/L
MW-14-3	1812884-08	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-14-3	1812884-08	Total Alkalinity as CaCO3	5/1/2018	230	Y	y	v		8.2	8.2	mg/L
MW-19-1	1812884-06	Bicarbonate	5/1/2018	290	Y	y	v		5.0	5.0	mg/L
MW-19-1	1812884-06	Total Alkalinity as CaCO3	5/1/2018	240	Y	y	v		4.1	4.1	mg/L
MW-19-1	1812884-06	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-19-2	1812884-05	Total Alkalinity as CaCO3	5/1/2018	230	Y	y	v		8.2	8.2	mg/L
MW-19-2	1812884-05	Bicarbonate	5/1/2018	280	Y	y	v		10	10	mg/L
MW-19-2	1812884-05	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-19-3	1812884-04	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-19-3	1812884-04	Bicarbonate	5/1/2018	220	Y	y	v		5.0	5.0	mg/L
MW-19-3	1812884-04	Total Alkalinity as CaCO3	5/1/2018	180	Y	y	v		4.1	4.1	mg/L
MW-19-4	1812884-03	Total Alkalinity as CaCO3	5/1/2018	180	Y	y	v		4.1	4.1	mg/L
MW-19-4	1812884-03	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-19-4	1812884-03	Bicarbonate	5/1/2018	220	Y	y	v		5.0	5.0	mg/L

SDG: 18-12884

<b>Analytical Method</b>											
SM-2320B											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-19-5	1812884-02	Total Alkalinity as CaCO3	5/1/2018	150	Y	y	v		4.1	4.1	mg/L
MW-19-5	1812884-02	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-19-5	1812884-02	Bicarbonate	5/1/2018	180	Y	y	v		5.0	5.0	mg/L
MW-21-2	1812884-14	Bicarbonate	5/1/2018	370	Y	y	v		10	10	mg/L
MW-21-2	1812884-14	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-21-2	1812884-14	Total Alkalinity as CaCO3	5/1/2018	300	Y	y	v		8.2	8.2	mg/L
MW-21-3	1812884-12	Total Alkalinity as CaCO3	5/1/2018	300	Y	y	v		8.2	8.2	mg/L
MW-21-3	1812884-12	Carbonate	5/1/2018	5	Y	n	u		5.0	5.0	mg/L
MW-21-3	1812884-12	Bicarbonate	5/1/2018	370	Y	y	v		10	10	mg/L
MW-21-4	1812884-15	Bicarbonate	5/1/2018	210	Y	y	v		5.0	5.0	mg/L
MW-21-4	1812884-15	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-21-4	1812884-15	Total Alkalinity as CaCO3	5/1/2018	170	Y	y	v		4.1	4.1	mg/L
MW-21-5	1812884-11	Total Alkalinity as CaCO3	5/1/2018	160	Y	y	v		4.1	4.1	mg/L
MW-21-5	1812884-11	Carbonate	5/1/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-21-5	1812884-11	Bicarbonate	5/1/2018	200	Y	y	v		5.0	5.0	mg/L

LDC #: 42346

**EDD POPULATION COMPLETENESS WORKSHEET**

Date: 6/19/18  
 Page: 1 of 1  
 2<sup>nd</sup> Reviewer: BA

The LDC job number listed above was entered by [Signature]  
 Entered from Body or Summary

	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	uDC - full description
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	N	
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

July 5, 2018

SUBJECT: NASA JPL, 2Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on June 13, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

### LDC Project #42411:

<u>SDG #</u>	<u>Fraction</u>
1813014, 1813184 1813498	Volatiles, 1,4-Dioxane, Metals, Wet Chemistry

The data validation was performed under Level III 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

**EDD 90/10 (client select) LDC #42411 (Tidewater- Powell, OH / NASA JPL, 2Q2018 GW Monitoring)**

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (524.2)		1,4-Dioxane (8270D)		Metals (200.7 /200.8)		Alk. (2320B)		Cl,SO <sub>4</sub> NO <sub>3</sub> -N (300.0)		NO <sub>2</sub> -N (353.2)		O-PO <sub>4</sub> (365.1)		CLO <sub>4</sub> (314.0)		Cr(VI) (7196)		TDS (160.1)		pH (150.1)		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	W	S	W	S	W	S	W	S	W	S	W	S	W	S							
Matrix: Water/Soil																																																
A	1813014	06/13/18	07/05/18	13	0	-	-	12	0	12	0	12	0	12	0	-	-	12	0	12	0	12	0	12	0																							
B	1813184	06/13/18	07/05/18	11	0	-	-	10	0	10	0	10	0	10	0	-	-	10	0	10	0	10	0	10	0																							
C	1813498	06/13/18	07/05/18	18	0	1	0	17	0	17	0	17	0	17	0	4	0	17	0	17	0	17	0	17	0																							
Total	J/PG			42	0	1	0	39	0	39	0	39	0	39	0	4	0	39	0	39	0	39	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** Volatiles

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813014

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-4-042318	1813014-01	Water	04/23/18
MW-3-5	1813014-02	Water	04/23/18
MW-3-4	1813014-03	Water	04/23/18
MW-3-3	1813014-04	Water	04/23/18
MW-3-2	1813014-05	Water	04/23/18
MW-3-1	1813014-06	Water	04/23/18
EB-4-042318	1813014-07	Water	04/23/18
SB-2-042318	1813014-08	Water	04/23/18
MW-25-5	1813014-09	Water	04/23/18
MW-25-3	1813014-10	Water	04/23/18
MW-25-4	1813014-11	Water	04/23/18
MW-25-2	1813014-12	Water	04/23/18
MW-25-1	1813014-13	Water	04/23/18
MW-25-2MS	1813014-12MS	Water	04/23/18
MW-25-2MSD	1813014-12MSD	Water	04/23/18

## 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
04/27/18 (27APR02)	Bromomethane	47.5	TB-4-042318 MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-25-2	J (all detects) UJ (all non-detects)	P
04/27/18 (27APR03)	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	38.2 54.2 60.7	TB-4-042318 MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-25-2	J (all detects) UJ (all non-detects)	P



Date	Compound	%D	Associated Samples	Flag	A or P
04/27/18 (27APR32)	Bromomethane	47.1	MW-3-1 EB-4-042318 SB-2-042318 MW-25-5 MW-25-3 MW-25-4 MW-25-1	J (all detects) UJ (all non-detects)	P
04/27/18 (27APR33)	Methyl iodide Pentachloroethane	38.5 91.0	MW-3-1 EB-4-042318 SB-2-042318 MW-25-5 MW-25-3 MW-25-4 MW-25-1	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P

## 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-4-042318 was identified as a trip blank. No contaminants were found.

Sample EB-4-042318 was identified as an equipment blank. No contaminants were found.

Sample SB-2-042318 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 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 1813014**

Sample	Compound	Flag	A or P	Reason
TB-4-042318 MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-25-2	Bromomethane trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D)
MW-3-1 EB-4-042318 SB-2-042318 MW-25-5 MW-25-3 MW-25-4 MW-25-1	Bromomethane Methyl iodide Pentachloroethane	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D)

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 1813014**

No Sample Data Qualified in this SDG

LDC #: 42411A1

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: 1813014

Level III

Laboratory: BC Laboratories, Inc.

Date: 4/15/18

Page: 1 of 2

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	$RSR \leq 20\%$ , $r^2 \geq 1$ , $1CV \leq 30\%$
IV.	Continuing calibration	M	$CCV \leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1, EB=7, SB=8
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	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

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-4-042318	1813014-01	Water	04/23/18
2	MW-3-5	1813014-02	Water	04/23/18
3	MW-3-4	1813014-03	Water	04/23/18
4	MW-3-3	1813014-04	Water	04/23/18
5	MW-3-2	1813014-05	Water	04/23/18
6	MW-3-1	1813014-06	Water	04/23/18
7	EB-4-042318	1813014-07	Water	04/23/18
8	SB-2-042318	1813014-08	Water	04/23/18
9	MW-25-5	1813014-09	Water	04/23/18
10	MW-25-3	1813014-10	Water	04/23/18
11	MW-25-4	1813014-11	Water	04/23/18
12	MW-25-2	1813014-12	Water	04/23/18
13	MW-25-1	1813014-13	Water	04/23/18

LDC #: 42411A1

# VALIDATION COMPLETENESS WORKSHEET

SDG #: 1813014

Level III

Laboratory: BC Laboratories, Inc.

Date: 4/15/18

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: KK

**METHOD:** GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-25-2MS	1813014-12MS	Water	04/23/18
15	MW-25-2MSD	1813014-12MSD	Water	04/23/18
16				
17				
18				

Notes:


## 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	WWWW. 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.

### 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) < 30% ?

#	Date	Standard ID	Compound	Finding %D (Limit: <30.0%)	Associated Samples	Qualifications
	<u>4/27/18</u>	<u>2TAPR02</u>	<u>B</u>	<u>47.5</u>	<del><u>1-5.12</u></del>	<u>✓</u> /N/A
		<u>✓ 0.3</u>	<u>YYY</u>	<u>38.2</u>	<u>14-15. MB</u>	
			<u>Methyl iodide</u>	<u>54.2</u>		<u>✓</u>
			<u>2222</u>	<u>60.7</u>		
	<u>4/27/18</u>	<u>2TAPR32</u>	<u>B</u>	<u>47.1</u>	<u>6-11.13. MB</u>	<u>✓</u> /N/A
		<u>✓ 33</u>	<u>Methyl iodide</u>	<u>38.5</u>		<u>✓</u>
			<u>2222</u>	<u>91.0</u>		

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 29, 2018

**Parameters:** Metals

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813014

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-5	1813014-02	Water	04/23/18
MW-3-4	1813014-03	Water	04/23/18
MW-3-3	1813014-04	Water	04/23/18
MW-3-2	1813014-05	Water	04/23/18
MW-3-1	1813014-06	Water	04/23/18
EB-4-042318	1813014-07	Water	04/23/18
SB-2-042318	1813014-08	Water	04/23/18
MW-25-5	1813014-09	Water	04/23/18
MW-25-3	1813014-10	Water	04/23/18
MW-25-4	1813014-11	Water	04/23/18
MW-25-2	1813014-12	Water	04/23/18
MW-25-1	1813014-13	Water	04/23/18
MW-25-4MS	1813014-11MS	Water	04/23/18
MW-25-4MSD	1813014-11MSD	Water	04/23/18
MW-25-4DUP	1813014-11DUP	Water	04/23/18
MW-25-2MS	1813014-12MS	Water	04/23/18
MW-25-2MSD	1813014-12MSD	Water	04/23/18
MW-25-2DUP	1813014-12DUP	Water	04/23/18



## 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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits with the following exceptions:

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
05/02/18	CCV (7:51)	Lead	85.8 (90-110)	MW-3-5 MW-3-4 MW-3-3 MW-3-2	UJ (all non-detects)	P

## IV. ICP Interference Check Sample Analysis

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

## 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	1.8330 ug/L	MW-3-5 MW-3-4 MW-3-3 MW-3-2
ICB/CCB	Arsenic	0.74200 ug/L	MW-3-5 MW-3-4 MW-3-3 MW-3-2

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-3-5	Chromium Arsenic	2.1 ug/L 1.9 ug/L	2.1U ug/L 1.9U ug/L
MW-3-3	Chromium Arsenic	2.3 ug/L 2.6 ug/L	2.3U ug/L 2.6U ug/L
MW-3-2	Chromium	0.65 ug/L	0.65U ug/L

## VI. Field Blanks

Sample EB-4-042318 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-4-042318	Chromium Calcium	0.77 ug/L 0.023 mg/L

Sample SB-2-042318 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
SB-2-042318	Calcium	0.017

## 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 with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-25-2MS/MSD (MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-3-1 MW-25-5 MW-25-3 MW-25-2)	Sodium	-	133 (75-125)	J (all detects)	A
MW-25-2MS/MSD (EB-4-042318 SB-2-042318)	Sodium	-	133 (75-125)	NA	-

For MW-25-2MS/MSD, no data were qualified for Calcium percent recoveries outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For MW-25-4MS/MSD, no data were qualified for Calcium and Sodium percent recoveries outside the QC limits since the parent sample results were greater than 4X the spike concentration.

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 with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
MW-25-2DUP (MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-3-1 MW-25-5 MW-25-3 MW-25-2)	Iron	31.3 ( $\leq 20$ )	-	J (all detects)	A
MW-25-2DUP (EB-4-042318 SB-2-042318)	Iron	31.3 ( $\leq 20$ )	-	UJ (all non-detects)	A

## **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 methods. 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 methods. No results were rejected in this SDG.

Due to instrument calibration CCV %R, MS/MSD %R, and DUP RPD, data were qualified as estimated in ten samples.

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. 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, 2Q2018**  
**Metals - Data Qualification Summary - SDG 1813014**

Sample	Analyte	Flag	A or P	Reason
MW-3-5 MW-3-4 MW-3-3 MW-3-2	Lead	UJ (all non-detects)	P	Instrument calibration (%R)
MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-3-1 MW-25-5 MW-25-3 MW-25-2	Sodium	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-3-1 MW-25-5 MW-25-3 MW-25-2	Iron	J (all detects)	A	Duplicate sample analysis (RPD)
EB-4-042318 SB-2-042318	Iron	UJ (all non-detects)	A	Duplicate sample analysis (RPD)

**NASA JPL, 2Q2018**  
**Metals - Laboratory Blank Data Qualification Summary - SDG 1813014**

Sample	Analyte	Modified Final Concentration	A or P
MW-3-5	Chromium Arsenic	2.1U ug/L 1.9U ug/L	A
MW-3-3	Chromium Arsenic	2.3U ug/L 2.6U ug/L	A
MW-3-2	Chromium	0.65U ug/L	A

LDC #: 42411A4a

**VALIDATION COMPLETENESS WORKSHEET**

Date: 6/26/18

SDG #: 1813014

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: J3

2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

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	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = 6, SB = 7
VII.	Matrix Spike/Matrix Spike Duplicates	SW	(13, 14), (16, 17)
VIII.	Duplicate sample analysis	SW	15, 18
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	N	Not Reviewed 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-3-5	1813014-02	Water	04/23/18
2	MW-3-4	1813014-03	Water	04/23/18
3	MW-3-3	1813014-04	Water	04/23/18
4	MW-3-2	1813014-05	Water	04/23/18
5	MW-3-1	1813014-06	Water	04/23/18
6	EB-4-042318	1813014-07	Water	04/23/18
7	SB-2-042318	1813014-08	Water	04/23/18
8	MW-25-5	1813014-09	Water	04/23/18
9	MW-25-3	1813014-10	Water	04/23/18
10	MW-25-4	1813014-11	Water	04/23/18
11	MW-25-2	1813014-12	Water	04/23/18
12	MW-25-1	1813014-13	Water	04/23/18
13	MW-25-4MS ↗	1813014-11MS	Water	04/23/18
14	MW-25-4MSD ↓	1813014-11MSD	Water	04/23/18
15	MW-25-4DUP ↓	1813014-11DUP	Water	04/23/18

LDC #: 42411A4a

# VALIDATION COMPLETENESS WORKSHEET

Date: 6/26/18

SDG #: 1813014

Level III

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: J3

2nd Reviewer: kk

**METHOD:** Metals (EPA Method 200.7/200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-25-2MS <sup>6 3</sup>	1813014-12MS	Water	04/23/18
17	MW-25-2MSD ↓	1813014-12MSD	Water	04/23/18
18	MW-25-2DUP	1813014-12DUP	Water	04/23/18
19				
20				
21				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Element Reference**

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-12	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
OC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
13-15	W	Al, Sb, <del>As</del> , Ba, Be, Cd, Ca, <del>Cr</del> , Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
14-18	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
<b>Analysis Method</b>		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,

Comments: Mercury by CVAA if performed

LDC #: 42411A4c  
 SDG # 1313014

**VALIDATION FINDINGS WORKSHEET**  
Calibration

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

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

- Y N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?
- Y N N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%) and cyanide (85-115%)?

**LEVEL IV ONLY:**

- Y N N/A Was a midrange cyanide standard distilled?
- Y N N/A Are all correlation coefficients  $\geq 0.995$ ?
- Y N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualification of Data
	5/2/18	CCV (7:51)	Pb	85.8 (90-110)	1-4	J/U/J/P (ND)

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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 - 4

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Level	1	3	4						
Cr		1.8330		9.165	2.1	2.3	0.65						
As			0.74200	3.71	1.9	2.6							

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 #: 42411 Ala  
 SDG #: 1813014

**VALIDATION FINDINGS WORKSHEET**  
Field Blanks

Page: 1 of 1  
 Reviewer: JS  
 2nd reviewer: EK

**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 ( )
Cr	0.77 ug/L
Ca	0.023 mg/L

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

Analyte	Concentration Units ( )
Ca	0.017 mg/L

## VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates

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

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

- Y N N/A Was a matrix spike analyzed for each matrix in this SDG?
- Y 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.
- Y N N/A Were all duplicate sample relative percent differences (RPD)  $\leq 20\%$  for samples?

**LEVEL IV ONLY:**

- Y 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
	(16,17)	W	Na		133 (75-125)		1-9,11	Ident/A (1-5, 8, 9, 11 = Det) (6,7 = ND)

Comments: (16,17); Ca > 4x (13,14); Ca, Na > 4x

## VALIDATION FINDINGS WORKSHEET Duplicate Analysis

**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 Was a duplicate sample analyzed for each matrix in this SDG?

Y N N/A Were all duplicate sample relative percent differences (RPD)  $\leq 20\%$  for water samples and  $\leq 35\%$  for soil samples? If no, see qualifications below. A control limit of  $\pm R.L.$  ( $\pm 2X R.L.$  for soil) was used for sample values that were  $< 5X$  the R.L., including the case when only one of the duplicate sample values was  $< 5X R.L.$ . If field blanks were used for laboratory duplicates, note in the Overall Assessment.

**LEVEL IV ONLY:**

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

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		18	W	Fe	31.3 (20)		1-9, 11	N/A (1-5, 8, 9, 11 = Det) (6, 7 = ND)

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 29, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813014

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-5	1813014-02	Water	04/23/18
MW-3-4	1813014-03	Water	04/23/18
MW-3-3	1813014-04	Water	04/23/18
MW-3-2	1813014-05	Water	04/23/18
MW-3-1	1813014-06	Water	04/23/18
EB-4-042318	1813014-07	Water	04/23/18
SB-2-042318	1813014-08	Water	04/23/18
MW-25-5	1813014-09	Water	04/23/18
MW-25-3	1813014-10	Water	04/23/18
MW-25-4	1813014-11	Water	04/23/18
MW-25-2	1813014-12	Water	04/23/18
MW-25-1	1813014-13	Water	04/23/18
MW-3-5MS	1813014-02MS	Water	04/23/18
MW-3-5MSD	1813014-02MSD	Water	04/23/18
MW-3-5DUP	1813014-02DUP	Water	04/23/18
MW-3-2DUP	1813014-05DUP	Water	04/23/18
MW-25-4MS	1813014-11MS	Water	04/23/18
MW-25-4MSD	1813014-11MSD	Water	04/23/18
MW-25-4DUP	1813014-11DUP	Water	04/23/18
MW-25-2MS	1813014-12MS	Water	04/23/18
MW-25-2MSD	1813014-12MSD	Water	04/23/18
MW-25-2DUP	1813014-12DUP	Water	04/23/18

## 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:

Alkalinity by Standard Method 2320B

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

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-3-1 EB-4-042318 SB-2-042318 MW-25-5 MW-25-3 MW-25-4 MW-25-2 MW-25-1	pH	9 days	48 hours	J (all detects)	P

## 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	1.1441 ug/L	MW-3-1 EB-4-042318 SB-2-042318 MW-25-5 MW-25-3 MW-25-4 MW-25-2 MW-25-1

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.

## V. Field Blanks

Sample EB-4-042318 was identified as an equipment blank. No contaminant concentrations were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-4-042318	Chloride	0.26

Sample SB-2-042318 was identified as a source blank. No contaminant concentrations were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
SB-2-042318	Chloride	0.23

## 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.

Due to technical holding time, 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, 2Q2018**  
**Wet Chemistry - Data Qualification Summary - SDG 1813014**

Sample	Analyte	Flag	A or P	Reason
MW-3-5 MW-3-4 MW-3-3 MW-3-2 MW-3-1 EB-4-042318 SB-2-042318 MW-25-5 MW-25-3 MW-25-4 MW-25-2 MW-25-1	pH	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1813014**

No Sample Data Qualified in this SDG

LDC #: 42411A6

**VALIDATION COMPLETENESS WORKSHEET**

Date: 6/26/18

SDG #: 1813014

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JB

2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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 / SW	
II.	Initial calibration	A	
III.	Calibration verification	A	
IV.	Laboratory Blanks	SW	
V.	Field blanks	SW	EB=7, SB=8
VI.	Matrix Spike/Matrix Spike Duplicates	A	(14,15) (18,19) (21,22)
VII.	Duplicate sample analysis	A	16, 17, 20, 23
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	<del>TB-4-042318</del>	1813014-01	Water	04/23/18
2	MW-3-5	1813014-02	Water	04/23/18
3	MW-3-4	1813014-03	Water	04/23/18
4	MW-3-3	1813014-04	Water	04/23/18
5	MW-3-2	1813014-05	Water	04/23/18
6	MW-3-1	1813014-06	Water	04/23/18
7	EB-4-042318	1813014-07	Water	04/23/18
8	SB-2-042318	1813014-08	Water	04/23/18
9	MW-25-5	1813014-09	Water	04/23/18
10	MW-25-3	1813014-10	Water	04/23/18
11	MW-25-4	1813014-11	Water	04/23/18
12	MW-25-2	1813014-12	Water	04/23/18
13	MW-25-1	1813014-13	Water	04/23/18
14	MW-3-5MS <i>get it</i>	1813014-02MS	Water	04/23/18
15	MW-3-5MSD	1813014-02MSD	Water	04/23/18
16	MW-3-5DUP <i>?</i>	1813014-02DUP	Water	04/23/18

LDC #: 42411A6

### VALIDATION COMPLETENESS WORKSHEET

Date: 6/26/18

SDG #: 1813014

Level III

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JB

2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

	Client ID	Lab ID	Matrix	Date
17	MW-3-2DUP <i>AK P</i>	1813014-05DUP	Water	04/23/18
18	MW-25-4MS <i>N</i>	1813014-11MS	Water	04/23/18
19	MW-25-4MSD	1813014-11MSD	Water	04/23/18
20	MW-25-4DUP	1813014-11DUP	Water	04/23/18
21	MW-25-2MS <i>o N K</i>	1813014-12MS	Water	04/23/18
22	MW-25-2MSD	1813014-12MSD	Water	04/23/18
23	MW-25-2DUP	1813014-12DUP	Water	04/23/18
24				
25				
26				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### VALIDATION FINDINGS WORKSHEET Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
2-13	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
QC	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
14,15	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
16	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
17	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
18-20	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
21-23	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>

Comments: \_\_\_\_\_



### VALIDATION FINDINGS WORKSHEET Technical Holding Times

All circled dates have exceeded the technical holding time.  
 Y  N  N/A Were all samples preserved as applicable to each method?  
 Y  N  N/A Were all cooler temperatures within validation criteria?

Method:	EPA 150.1
Parameters:	pH
Technical holding time:	48 hours.

Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
2-13	4/23/18	5/2/18	9 days	J/WJP (Def)			

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

METHOD: Inorganics, Method See Cover

Conc. units: ug/L Associated Samples 6 - 13

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (ug/L)											
Perchlorate		1.1441	5.7205										

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 #: 42411A6  
SDG #: 181304

# VALIDATION FINDINGS WORKSHEET

## Field Blanks

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

METHOD: Inorganics

Y / N / N/A  
Y / N / N/A

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

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

Analyte	Concentration Units ( )
Cl	0.26 mg/L

Sample: 8 Field Blank / Trip Blank / Rinsate / Other SB (circle one)

Analyte	Concentration Units ( )
Cl	0.23 mg/L

## NASA JPL, 2Q2018 - LDC# 42411A

SDG: 1813014

<b>Analytical Method</b>											
EPA-150.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	pH	5/2/2018	4.56	Y	y	v	J	0.05	0.05	pH Units
MW-25-1	1813014-13	pH	5/2/2018	7.81	Y	y	v	J	0.05	0.05	pH Units
MW-25-2	1813014-12	pH	5/2/2018	8.22	Y	y	v	J	0.05	0.05	pH Units
MW-25-4	1813014-11	pH	5/2/2018	8.06	Y	y	v	J	0.05	0.05	pH Units
MW-25-5	1813014-09	pH	5/2/2018	9.07	Y	y	v	J	0.05	0.05	pH Units
MW-3-1	1813014-06	pH	5/2/2018	7.97	Y	y	v	J	0.05	0.05	pH Units
MW-3-2	1813014-05	pH	5/2/2018	7.85	Y	y	v	J	0.05	0.05	pH Units
MW-3-3	1813014-04	pH	5/2/2018	7.8	Y	y	v	J	0.05	0.05	pH Units
MW-3-4	1813014-03	pH	5/2/2018	7.92	Y	y	v	J	0.05	0.05	pH Units
MW-3-5	1813014-02	pH	5/2/2018	8.06	Y	y	v	J	0.05	0.05	pH Units
SB-2-042318	1813014-08	pH	5/2/2018	4.91	Y	y	v	J	0.05	0.05	pH Units

<b>Analytical Method</b>											
EPA-160.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Total Dissolved Solids @ 180 C	4/27/2018	6.7	Y	n	u		6.7	6.7	mg/L
MW-25-1	1813014-13	Total Dissolved Solids @ 180 C	4/27/2018	590	Y	y	v		33	33	mg/L
MW-25-2	1813014-12	Total Dissolved Solids @ 180 C	4/27/2018	420	Y	y	v		20	20	mg/L
MW-25-4	1813014-11	Total Dissolved Solids @ 180 C	4/27/2018	490	Y	y	v		33	33	mg/L
MW-25-5	1813014-09	Total Dissolved Solids @ 180 C	4/27/2018	230	Y	y	v		20	20	mg/L
MW-3-1	1813014-06	Total Dissolved Solids @ 180 C	4/27/2018	380	Y	y	v		20	20	mg/L
MW-3-2	1813014-05	Total Dissolved Solids @ 180 C	4/27/2018	360	Y	y	v		20	20	mg/L
MW-3-3	1813014-04	Total Dissolved Solids @ 180 C	4/27/2018	390	Y	y	v		20	20	mg/L
MW-3-4	1813014-03	Total Dissolved Solids @ 180 C	4/27/2018	360	Y	y	v		20	20	mg/L
MW-3-5	1813014-02	Total Dissolved Solids @ 180 C	4/27/2018	320	Y	y	v		20	20	mg/L

SDG: 1813014

Analytical Method		EPA-160.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-042318	1813014-08	Total Dissolved Solids @ 180 C	4/27/2018	6.7	Y	n	u		6.7	6.7	mg/L

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-042318	1813014-07	Total Recoverable Sodium	5/4/2018	0.5	Y	n	u		0.50	0.051	mg/L
EB-4-042318	1813014-07	Total Recoverable Potassium	5/4/2018	1	Y	n	u		1.0	0.10	mg/L
EB-4-042318	1813014-07	Total Recoverable Magnesium	5/4/2018	0.05	Y	n	u		0.050	0.019	mg/L
EB-4-042318	1813014-07	Total Recoverable Calcium	5/4/2018	0.023	Y	y	v j		0.10	0.014	mg/L
EB-4-042318	1813014-07	Total Recoverable Iron	5/4/2018	50	Y	n	u	UJ	50	30	ug/L
MW-25-1	1813014-13	Total Recoverable Calcium	5/4/2018	110	Y	y	v		0.10	0.014	mg/L
MW-25-1	1813014-13	Total Recoverable Magnesium	5/4/2018	36	Y	y	v		0.050	0.019	mg/L
MW-25-1	1813014-13	Total Recoverable Sodium	5/4/2018	45	Y	y	v		0.50	0.051	mg/L
MW-25-1	1813014-13	Total Recoverable Iron	5/4/2018	630	Y	y	v		50	30	ug/L
MW-25-1	1813014-13	Total Recoverable Potassium	5/4/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-25-2	1813014-12	Total Recoverable Calcium	5/4/2018	77	Y	y	v		0.10	0.014	mg/L
MW-25-2	1813014-12	Total Recoverable Sodium	5/4/2018	35	Y	y	v	J	0.50	0.051	mg/L
MW-25-2	1813014-12	Total Recoverable Potassium	5/4/2018	2.7	Y	y	v		1.0	0.10	mg/L
MW-25-2	1813014-12	Total Recoverable Magnesium	5/4/2018	27	Y	y	v		0.050	0.019	mg/L
MW-25-2	1813014-12	Total Recoverable Iron	5/4/2018	430	Y	y	v	J	50	30	ug/L
MW-25-4	1813014-11	Total Recoverable Calcium	5/4/2018	86	Y	y	v		0.10	0.014	mg/L
MW-25-4	1813014-11	Total Recoverable Magnesium	5/4/2018	25	Y	y	v		0.050	0.019	mg/L
MW-25-4	1813014-11	Total Recoverable Sodium	5/4/2018	51	Y	y	v		0.50	0.051	mg/L
MW-25-4	1813014-11	Total Recoverable Potassium	5/4/2018	2.4	Y	y	v		1.0	0.10	mg/L
MW-25-4	1813014-11	Total Recoverable Iron	5/4/2018	150	Y	y	v		50	30	ug/L
MW-25-5	1813014-09	Total Recoverable Iron	5/4/2018	68	Y	y	v	J	50	30	ug/L

SDG: 1813014

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1813014-09	Total Recoverable Sodium	5/4/2018	66	Y	y	v	J	0.50	0.051	mg/L
MW-25-5	1813014-09	Total Recoverable Calcium	5/4/2018	5.9	Y	y	v		0.10	0.014	mg/L
MW-25-5	1813014-09	Total Recoverable Potassium	5/4/2018	1.9	Y	y	v		1.0	0.10	mg/L
MW-25-5	1813014-09	Total Recoverable Magnesium	5/4/2018	4.5	Y	y	v		0.050	0.019	mg/L
MW-3-1	1813014-06	Total Recoverable Potassium	5/4/2018	3.4	Y	y	v		1.0	0.10	mg/L
MW-3-1	1813014-06	Total Recoverable Iron	5/4/2018	190	Y	y	v	J	50	30	ug/L
MW-3-1	1813014-06	Total Recoverable Calcium	5/4/2018	71	Y	y	v		0.10	0.014	mg/L
MW-3-1	1813014-06	Total Recoverable Magnesium	5/4/2018	23	Y	y	v		0.050	0.019	mg/L
MW-3-1	1813014-06	Total Recoverable Sodium	5/4/2018	30	Y	y	v	J	0.50	0.051	mg/L
MW-3-2	1813014-05	Total Recoverable Calcium	5/4/2018	71	Y	y	v		0.10	0.014	mg/L
MW-3-2	1813014-05	Total Recoverable Magnesium	5/4/2018	23	Y	y	v		0.050	0.019	mg/L
MW-3-2	1813014-05	Total Recoverable Sodium	5/4/2018	26	Y	y	v	J	0.50	0.051	mg/L
MW-3-2	1813014-05	Total Recoverable Potassium	5/4/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-3-2	1813014-05	Total Recoverable Iron	5/4/2018	230	Y	y	v	J	50	30	ug/L
MW-3-3	1813014-04	Total Recoverable Calcium	5/4/2018	56	Y	y	v		0.10	0.014	mg/L
MW-3-3	1813014-04	Total Recoverable Magnesium	5/4/2018	17	Y	y	v		0.050	0.019	mg/L
MW-3-3	1813014-04	Total Recoverable Sodium	5/4/2018	51	Y	y	v	J	0.50	0.051	mg/L
MW-3-3	1813014-04	Total Recoverable Potassium	5/4/2018	2.8	Y	y	v		1.0	0.10	mg/L
MW-3-3	1813014-04	Total Recoverable Iron	5/4/2018	480	Y	y	v	J	50	30	ug/L
MW-3-4	1813014-03	Total Recoverable Calcium	5/4/2018	56	Y	y	v		0.10	0.014	mg/L
MW-3-4	1813014-03	Total Recoverable Magnesium	5/4/2018	18	Y	y	v		0.050	0.019	mg/L
MW-3-4	1813014-03	Total Recoverable Sodium	5/4/2018	52	Y	y	v	J	0.50	0.051	mg/L
MW-3-4	1813014-03	Total Recoverable Potassium	5/4/2018	2.8	Y	y	v		1.0	0.10	mg/L
MW-3-4	1813014-03	Total Recoverable Iron	5/4/2018	8100	Y	y	v	J	50	30	ug/L
MW-3-5	1813014-02	Total Recoverable Iron	5/4/2018	1100	Y	y	v	J	50	30	ug/L

SDG: 1813014

<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-3-5	1813014-02	Total Recoverable Sodium	5/4/2018	49	Y	y	v	J	0.50	0.051	mg/L
MW-3-5	1813014-02	Total Recoverable Magnesium	5/4/2018	17	Y	y	v		0.050	0.019	mg/L
MW-3-5	1813014-02	Total Recoverable Calcium	5/4/2018	42	Y	y	v		0.10	0.014	mg/L
MW-3-5	1813014-02	Total Recoverable Potassium	5/4/2018	2.8	Y	y	v		1.0	0.10	mg/L
SB-2-042318	1813014-08	Total Recoverable Iron	5/4/2018	50	Y	n	u	UJ	50	30	ug/L
SB-2-042318	1813014-08	Total Recoverable Calcium	5/4/2018	0.017	Y	y	v j		0.10	0.014	mg/L
SB-2-042318	1813014-08	Total Recoverable Sodium	5/4/2018	0.5	Y	n	u		0.50	0.051	mg/L
SB-2-042318	1813014-08	Total Recoverable Magnesium	5/4/2018	0.05	Y	n	u		0.050	0.019	mg/L
SB-2-042318	1813014-08	Total Recoverable Potassium	5/4/2018	1	Y	n	u		1.0	0.10	mg/L

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
EB-4-042318	1813014-07	Total Recoverable Chromium	4/30/2018	0.77	Y	y	v j		3.0	0.50	ug/L
EB-4-042318	1813014-07	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-25-1	1813014-13	Total Recoverable Chromium	4/30/2018	2.4	Y	y	v j		3.0	0.50	ug/L
MW-25-1	1813014-13	Total Recoverable Lead	4/30/2018	0.14	Y	y	v j		1.0	0.10	ug/L
MW-25-1	1813014-13	Total Recoverable Arsenic	4/30/2018	0.89	Y	y	v j		2.0	0.70	ug/L
MW-25-2	1813014-12	Total Recoverable Arsenic	4/30/2018	0.79	Y	y	v j		2.0	0.70	ug/L
MW-25-2	1813014-12	Total Recoverable Chromium	4/30/2018	2.4	Y	y	v j		3.0	0.50	ug/L
MW-25-2	1813014-12	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-25-4	1813014-11	Total Recoverable Chromium	4/30/2018	1.7	Y	y	v j		3.0	0.50	ug/L
MW-25-4	1813014-11	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-25-4	1813014-11	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-25-5	1813014-09	Total Recoverable Chromium	4/30/2018	3	Y	n	u		3.0	0.50	ug/L

SDG: 1813014

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-25-5	1813014-09	Total Recoverable Arsenic	4/30/2018	0.86	Y	y	v j		2.0	0.70	ug/L
MW-25-5	1813014-09	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-3-1	1813014-06	Total Recoverable Chromium	4/30/2018	3	Y	n	u		3.0	0.50	ug/L
MW-3-1	1813014-06	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L
MW-3-1	1813014-06	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
MW-3-2	1813014-05	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-3-2	1813014-05	Total Recoverable Lead	5/2/2018	1	Y	n	u	UJ	1.0	0.10	ug/L
MW-3-2	1813014-05	Total Recoverable Chromium	5/2/2018	0.65	Y	y	v j	U	3.0	0.50	ug/L
MW-3-3	1813014-04	Total Recoverable Lead	5/2/2018	1	Y	n	u	UJ	1.0	0.10	ug/L
MW-3-3	1813014-04	Total Recoverable Chromium	5/2/2018	2.3	Y	y	v j	U	3.0	0.50	ug/L
MW-3-3	1813014-04	Total Recoverable Arsenic	5/2/2018	2.6	Y	y	v	U	2.0	0.70	ug/L
MW-3-4	1813014-03	Total Recoverable Chromium	5/2/2018	11	Y	y	v		3.0	0.50	ug/L
MW-3-4	1813014-03	Total Recoverable Lead	5/2/2018	1	Y	n	u	UJ	1.0	0.10	ug/L
MW-3-4	1813014-03	Total Recoverable Arsenic	5/2/2018	6	Y	y	v		2.0	0.70	ug/L
MW-3-5	1813014-02	Total Recoverable Chromium	5/2/2018	2.1	Y	y	v j	U	3.0	0.50	ug/L
MW-3-5	1813014-02	Total Recoverable Arsenic	5/2/2018	1.9	Y	y	v j	U	2.0	0.70	ug/L
MW-3-5	1813014-02	Total Recoverable Lead	5/2/2018	1	Y	n	u	UJ	1.0	0.10	ug/L
SB-2-042318	1813014-08	Total Recoverable Chromium	4/30/2018	3	Y	n	u		3.0	0.50	ug/L
SB-2-042318	1813014-08	Total Recoverable Arsenic	4/30/2018	2	Y	n	u		2.0	0.70	ug/L
SB-2-042318	1813014-08	Total Recoverable Lead	4/30/2018	1	Y	n	u		1.0	0.10	ug/L

<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Sulfate	4/24/2018	1	Y	n	u		1.0	0.13	mg/L
EB-4-042318	1813014-07	Nitrate as N	4/24/2018	0.1	Y	n	u		0.10	0.021	mg/L



SDG: 1813014

Analytical Method EPA-300.0

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-042318	1813014-07	Chloride	4/24/2018	0.26	Y	y	v j		0.50	0.077	mg/L
MW-25-1	1813014-13	Nitrate as N	4/24/2018	8.5	Y	y	v		0.10	0.021	mg/L
MW-25-1	1813014-13	Chloride	4/24/2018	69	Y	y	v		0.50	0.077	mg/L
MW-25-1	1813014-13	Sulfate	4/24/2018	110	Y	y	v		1.0	0.13	mg/L
MW-25-2	1813014-12	Nitrate as N	4/24/2018	8.8	Y	y	v		0.10	0.021	mg/L
MW-25-2	1813014-12	Chloride	4/24/2018	47	Y	y	v		0.50	0.077	mg/L
MW-25-2	1813014-12	Sulfate	4/24/2018	72	Y	y	v		1.0	0.13	mg/L
MW-25-4	1813014-11	Nitrate as N	4/24/2018	6.1	Y	y	v		0.10	0.021	mg/L
MW-25-4	1813014-11	Chloride	4/24/2018	54	Y	y	v		0.50	0.077	mg/L
MW-25-4	1813014-11	Sulfate	4/24/2018	76	Y	y	v		1.0	0.13	mg/L
MW-25-5	1813014-09	Sulfate	4/24/2018	52	Y	y	v		1.0	0.13	mg/L
MW-25-5	1813014-09	Nitrate as N	4/24/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-25-5	1813014-09	Chloride	4/24/2018	15	Y	y	v		0.50	0.077	mg/L
MW-3-1	1813014-06	Sulfate	4/24/2018	41	Y	y	v		1.0	0.13	mg/L
MW-3-1	1813014-06	Nitrate as N	4/24/2018	0.67	Y	y	v		0.10	0.021	mg/L
MW-3-1	1813014-06	Chloride	4/24/2018	23	Y	y	v		0.50	0.077	mg/L
MW-3-2	1813014-05	Nitrate as N	4/24/2018	1.2	Y	y	v		0.10	0.021	mg/L
MW-3-2	1813014-05	Sulfate	4/24/2018	39	Y	y	v		1.0	0.13	mg/L
MW-3-2	1813014-05	Chloride	4/24/2018	15	Y	y	v		0.50	0.077	mg/L
MW-3-3	1813014-04	Sulfate	4/24/2018	31	Y	y	v		1.0	0.13	mg/L
MW-3-3	1813014-04	Nitrate as N	4/24/2018	2.3	Y	y	v		0.10	0.021	mg/L
MW-3-3	1813014-04	Chloride	4/24/2018	43	Y	y	v		0.50	0.077	mg/L
MW-3-4	1813014-03	Chloride	4/24/2018	45	Y	y	v		0.50	0.077	mg/L
MW-3-4	1813014-03	Sulfate	4/24/2018	32	Y	y	v		1.0	0.13	mg/L
MW-3-4	1813014-03	Nitrate as N	4/24/2018	1.8	Y	y	v		0.10	0.021	mg/L

SDG: 1813014

<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-3-5	1813014-02	Chloride	4/23/2018	45	Y	y	v		0.50	0.077	mg/L
MW-3-5	1813014-02	Nitrate as N	4/23/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-3-5	1813014-02	Sulfate	4/23/2018	27	Y	y	v		1.0	0.13	mg/L
SB-2-042318	1813014-08	Nitrate as N	4/24/2018	0.1	Y	n	u		0.10	0.021	mg/L
SB-2-042318	1813014-08	Sulfate	4/24/2018	1	Y	n	u		1.0	0.13	mg/L
SB-2-042318	1813014-08	Chloride	4/24/2018	0.23	Y	y	v j		0.50	0.077	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Perchlorate	5/9/2018	4	Y	n	u		4.0	0.58	ug/L
MW-25-1	1813014-13	Perchlorate	5/9/2018	9.1	Y	y	v		4.0	0.58	ug/L
MW-25-2	1813014-12	Perchlorate	5/9/2018	12	Y	y	v		4.0	0.58	ug/L
MW-25-4	1813014-11	Perchlorate	5/9/2018	9	Y	y	v		4.0	0.58	ug/L
MW-25-5	1813014-09	Perchlorate	5/9/2018	4	Y	n	u		4.0	0.58	ug/L
MW-3-1	1813014-06	Perchlorate	5/9/2018	4	Y	n	u		4.0	0.58	ug/L
MW-3-2	1813014-05	Perchlorate	5/9/2018	0.62	Y	y	v j		4.0	0.58	ug/L
MW-3-3	1813014-04	Perchlorate	5/9/2018	0.64	Y	y	v j		4.0	0.58	ug/L
MW-3-4	1813014-03	Perchlorate	5/9/2018	0.98	Y	y	v j		4.0	0.58	ug/L
MW-3-5	1813014-02	Perchlorate	5/9/2018	4	Y	n	u		4.0	0.58	ug/L
SB-2-042318	1813014-08	Perchlorate	5/9/2018	4	Y	n	u		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-25-1	1813014-13	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-25-2	1813014-12	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L

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<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-25-4	1813014-11	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-25-5	1813014-09	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-3-1	1813014-06	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-3-2	1813014-05	Nitrite as N	4/24/2018	0.052	Y	y	v		0.050	0.010	mg/L
MW-3-3	1813014-04	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-3-4	1813014-03	Nitrite as N	4/24/2018	0.052	Y	y	v		0.050	0.010	mg/L
MW-3-5	1813014-02	Nitrite as N	4/24/2018	0.027	Y	y	v j		0.050	0.010	mg/L
SB-2-042318	1813014-08	Nitrite as N	4/24/2018	0.05	Y	n	u		0.050	0.010	mg/L

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-042318	1813014-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-042318	1813014-07	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
EB-4-042318	1813014-07	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-042318	1813014-07	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-042318	1813014-07	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-042318	1813014-07	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-042318	1813014-07	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
EB-4-042318	1813014-07	Naphthalene	4/28/2018	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
EB-4-042318	1813014-07	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-042318	1813014-07	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-042318	1813014-07	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-042318	1813014-07	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-042318	1813014-07	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-042318	1813014-07	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-042318	1813014-07	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
EB-4-042318	1813014-07	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
EB-4-042318	1813014-07	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-4-042318	1813014-07	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-042318	1813014-07	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-4-042318	1813014-07	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
EB-4-042318	1813014-07	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
EB-4-042318	1813014-07	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-4-042318	1813014-07	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
EB-4-042318	1813014-07	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
EB-4-042318	1813014-07	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
EB-4-042318	1813014-07	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-4-042318	1813014-07	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	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-4-042318	1813014-07	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-042318	1813014-07	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-042318	1813014-07	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
EB-4-042318	1813014-07	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
EB-4-042318	1813014-07	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
EB-4-042318	1813014-07	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-042318	1813014-07	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
EB-4-042318	1813014-07	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
EB-4-042318	1813014-07	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
EB-4-042318	1813014-07	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-042318	1813014-07	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-042318	1813014-07	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-4-042318	1813014-07	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-042318	1813014-07	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-042318	1813014-07	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-042318	1813014-07	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-4-042318	1813014-07	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-042318	1813014-07	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-042318	1813014-07	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	1,1,1,2-Tetrachloroethane	4/28/2018	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
EB-4-042318	1813014-07	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-042318	1813014-07	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-042318	1813014-07	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-042318	1813014-07	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-4-042318	1813014-07	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-042318	1813014-07	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-042318	1813014-07	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-042318	1813014-07	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-042318	1813014-07	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-042318	1813014-07	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-042318	1813014-07	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
EB-4-042318	1813014-07	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-042318	1813014-07	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-042318	1813014-07	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1813014-13	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1813014-13	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1813014-13	1,2,3-Trichloropropane	4/28/2018	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-25-1	1813014-13	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	Trichloroethene	4/28/2018	1	Y	y	v		0.50	0.19	ug/L
MW-25-1	1813014-13	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1813014-13	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1813014-13	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-25-1	1813014-13	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-1	1813014-13	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1813014-13	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-1	1813014-13	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-1	1813014-13	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1813014-13	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-25-1	1813014-13	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1813014-13	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-1	1813014-13	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-1	1813014-13	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1813014-13	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1813014-13	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1813014-13	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1813014-13	1,3-Dichloropropane	4/28/2018	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
MW-25-1	1813014-13	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-1	1813014-13	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-1	1813014-13	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1813014-13	Chloroform	4/28/2018	0.39	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1813014-13	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1813014-13	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-1	1813014-13	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-1	1813014-13	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1813014-13	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1813014-13	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-1	1813014-13	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1813014-13	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1813014-13	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1813014-13	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1813014-13	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1813014-13	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1813014-13	Naphthalene	4/28/2018	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
MW-25-1	1813014-13	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1813014-13	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1813014-13	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1813014-13	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1813014-13	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1813014-13	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-1	1813014-13	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1813014-13	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1813014-13	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1813014-13	Methyl t-butyl ether	4/28/2018	0.42	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1813014-13	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-1	1813014-13	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1813014-13	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-25-1	1813014-13	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-25-1	1813014-13	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-25-1	1813014-13	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-1	1813014-13	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-1	1813014-13	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-25-1	1813014-13	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-25-1	1813014-13	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-1	1813014-13	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-1	1813014-13	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1813014-13	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-25-2	1813014-12	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1813014-12	o-Xylene	4/27/2018	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
MW-25-2	1813014-12	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-2	1813014-12	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1813014-12	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1813014-12	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-2	1813014-12	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-25-2	1813014-12	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1813014-12	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-2	1813014-12	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1813014-12	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-2	1813014-12	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-25-2	1813014-12	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-2	1813014-12	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-25-2	1813014-12	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-25-2	1813014-12	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-25-2	1813014-12	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-25-2	1813014-12	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1813014-12	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1813014-12	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	Trichloroethene	4/27/2018	0.27	Y	y	v j		0.50	0.19	ug/L
MW-25-2	1813014-12	Naphthalene	4/27/2018	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
MW-25-2	1813014-12	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1813014-12	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1813014-12	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1813014-12	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1813014-12	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1813014-12	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1813014-12	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1813014-12	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-2	1813014-12	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1813014-12	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1813014-12	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1813014-12	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1813014-12	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1813014-12	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-2	1813014-12	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1813014-12	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1813014-12	Chloroform	4/27/2018	0.16	Y	y	v j		0.50	0.14	ug/L
MW-25-2	1813014-12	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-2	1813014-12	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1813014-12	Acetone	4/27/2018	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-25-2	1813014-12	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-2	1813014-12	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-2	1813014-12	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1813014-12	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-2	1813014-12	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1813014-12	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1813014-12	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-2	1813014-12	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-2	1813014-12	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-25-2	1813014-12	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1813014-12	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1813014-12	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1813014-12	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1813014-12	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1813014-12	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1813014-12	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	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-25-2	1813014-12	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-25-2	1813014-12	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1813014-12	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-2	1813014-12	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1813014-11	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1813014-11	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1813014-11	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-4	1813014-11	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1813014-11	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1813014-11	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1813014-11	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1813014-11	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1813014-11	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1813014-11	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1813014-11	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1813014-11	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1813014-11	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1813014-11	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1813014-11	1,1,2,2-Tetrachloroethane	4/28/2018	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-25-4	1813014-11	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1813014-11	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1813014-11	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-25-4	1813014-11	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1813014-11	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1813014-11	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-4	1813014-11	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-25-4	1813014-11	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-25-4	1813014-11	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-4	1813014-11	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-4	1813014-11	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-25-4	1813014-11	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-4	1813014-11	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-25-4	1813014-11	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-4	1813014-11	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1813014-11	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-4	1813014-11	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-4	1813014-11	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-4	1813014-11	Carbon disulfide	4/28/2018	0.67	Y	y	v j		1.0	0.48	ug/L
MW-25-4	1813014-11	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-25-4	1813014-11	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1813014-11	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-4	1813014-11	Acrylonitrile	4/28/2018	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
MW-25-4	1813014-11	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-25-4	1813014-11	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1813014-11	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-25-4	1813014-11	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-4	1813014-11	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1813014-11	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1813014-11	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1813014-11	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1813014-11	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1813014-11	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1813014-11	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1813014-11	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1813014-11	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1813014-11	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1813014-11	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1813014-11	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1813014-11	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-4	1813014-11	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-4	1813014-11	cis-1,2-Dichloroethene	4/28/2018	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
MW-25-4	1813014-11	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1813014-11	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1813014-11	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1813014-11	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1813014-11	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1813014-11	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-4	1813014-11	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1813014-11	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1813014-11	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-25-5	1813014-09	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1813014-09	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1813014-09	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-5	1813014-09	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1813014-09	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1813014-09	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1813014-09	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-5	1813014-09	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1813014-09	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1813014-09	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1813014-09	1,1,1,2-Tetrachloroethane	4/28/2018	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-25-5	1813014-09	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1813014-09	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1813014-09	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1813014-09	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1813014-09	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-5	1813014-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1813014-09	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-25-5	1813014-09	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1813014-09	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1813014-09	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1813014-09	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1813014-09	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-5	1813014-09	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-5	1813014-09	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1813014-09	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1813014-09	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	Bromobenzene	4/28/2018	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-25-5	1813014-09	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-25-5	1813014-09	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-5	1813014-09	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1813014-09	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-5	1813014-09	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-5	1813014-09	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1813014-09	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1813014-09	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1813014-09	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-5	1813014-09	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1813014-09	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-5	1813014-09	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1813014-09	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1813014-09	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1813014-09	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1813014-09	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1813014-09	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-5	1813014-09	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1813014-09	Methylene chloride	4/28/2018	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-25-5	1813014-09	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1813014-09	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1813014-09	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1813014-09	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-5	1813014-09	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1813014-09	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-25-5	1813014-09	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-5	1813014-09	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-5	1813014-09	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-25-5	1813014-09	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-5	1813014-09	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-25-5	1813014-09	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-5	1813014-09	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-25-5	1813014-09	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-3-1	1813014-06	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-1	1813014-06	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1813014-06	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-1	1813014-06	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-1	1813014-06	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-1	1813014-06	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	Bromochloromethane	4/28/2018	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
MW-3-1	1813014-06	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-1	1813014-06	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1813014-06	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-1	1813014-06	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1813014-06	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-1	1813014-06	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1813014-06	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-1	1813014-06	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1813014-06	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-1	1813014-06	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1813014-06	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1813014-06	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-1	1813014-06	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-1	1813014-06	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-1	1813014-06	Chloroform	4/28/2018	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-3-1	1813014-06	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-1	1813014-06	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-1	1813014-06	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-1	1813014-06	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-1	1813014-06	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-1	1813014-06	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1813014-06	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1813014-06	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-1	1813014-06	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-1	1813014-06	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1813014-06	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1813014-06	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-1	1813014-06	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-3-1	1813014-06	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-3-1	1813014-06	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-1	1813014-06	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-1	1813014-06	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-1	1813014-06	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-1	1813014-06	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	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-3-1	1813014-06	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-1	1813014-06	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1813014-06	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-3-1	1813014-06	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-1	1813014-06	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-1	1813014-06	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-3-1	1813014-06	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-1	1813014-06	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-3-1	1813014-06	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-1	1813014-06	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1813014-06	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1813014-06	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-3-1	1813014-06	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-1	1813014-06	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-3-1	1813014-06	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-1	1813014-06	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1813014-06	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1813014-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1813014-06	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-1	1813014-06	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-3-1	1813014-06	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-2	1813014-05	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-3-2	1813014-05	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-3-2	1813014-05	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	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	1813014-05	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-3-2	1813014-05	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-2	1813014-05	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-3-2	1813014-05	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-3-2	1813014-05	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-3-2	1813014-05	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-2	1813014-05	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1813014-05	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-2	1813014-05	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-3-2	1813014-05	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-2	1813014-05	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-2	1813014-05	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-2	1813014-05	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-3-2	1813014-05	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1813014-05	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-2	1813014-05	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-2	1813014-05	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-2	1813014-05	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-2	1813014-05	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1813014-05	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	sec-Butylbenzene	4/27/2018	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
MW-3-2	1813014-05	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1813014-05	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-2	1813014-05	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-2	1813014-05	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1813014-05	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-2	1813014-05	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1813014-05	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1813014-05	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1813014-05	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1813014-05	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-3-2	1813014-05	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1813014-05	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1813014-05	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1813014-05	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1813014-05	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1813014-05	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	cis-1,2-Dichloroethene	4/27/2018	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
MW-3-2	1813014-05	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1813014-05	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1813014-05	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1813014-05	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1813014-05	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1813014-05	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1813014-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1813014-05	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-2	1813014-05	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1813014-05	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1813014-05	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1813014-05	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1813014-05	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1813014-05	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1813014-05	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1813014-05	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1813014-05	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1813014-05	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1813014-05	Styrene	4/27/2018	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-3-2	1813014-05	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1813014-05	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1813014-05	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1813014-04	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-3-3	1813014-04	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-3	1813014-04	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1813014-04	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1813014-04	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-3	1813014-04	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1813014-04	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1813014-04	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-3	1813014-04	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1813014-04	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1813014-04	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1813014-04	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1813014-04	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1813014-04	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	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-3-3	1813014-04	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1813014-04	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-3-3	1813014-04	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-3	1813014-04	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-3	1813014-04	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1813014-04	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-3-3	1813014-04	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-3	1813014-04	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-3-3	1813014-04	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-3	1813014-04	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-3	1813014-04	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-3	1813014-04	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1813014-04	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-3-3	1813014-04	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-3-3	1813014-04	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-3-3	1813014-04	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-3	1813014-04	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-3-3	1813014-04	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1813014-04	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-3-3	1813014-04	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1813014-04	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1813014-04	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-3	1813014-04	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Dibromochloromethane	4/27/2018	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-3-3	1813014-04	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1813014-04	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1813014-04	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1813014-04	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-3	1813014-04	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1813014-04	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-3	1813014-04	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-3	1813014-04	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1813014-04	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1813014-04	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1813014-04	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1813014-04	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1813014-04	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-3	1813014-04	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1813014-04	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1813014-04	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1813014-04	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1813014-04	Dichlorodifluoromethane	4/27/2018	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-3-3	1813014-04	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1813014-04	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1813014-04	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1813014-04	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1813014-04	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1813014-04	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-4	1813014-03	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1813014-03	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1813014-03	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1813014-03	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-4	1813014-03	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-4	1813014-03	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1813014-03	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1813014-03	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1813014-03	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-4	1813014-03	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-3-4	1813014-03	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1813014-03	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	1,2,4-Trimethylbenzene	4/27/2018	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-3-4	1813014-03	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-4	1813014-03	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1813014-03	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1813014-03	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-3-4	1813014-03	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1813014-03	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1813014-03	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1813014-03	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1813014-03	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1813014-03	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-4	1813014-03	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-3-4	1813014-03	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1813014-03	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-4	1813014-03	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-3-4	1813014-03	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-3-4	1813014-03	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-4	1813014-03	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-4	1813014-03	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-4	1813014-03	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-4	1813014-03	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1813014-03	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-3-4	1813014-03	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-3-4	1813014-03	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1813014-03	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	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-3-4	1813014-03	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-4	1813014-03	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-3-4	1813014-03	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-3-4	1813014-03	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-4	1813014-03	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1813014-03	1,1-Dichloroethane	4/27/2018	0.16	Y	y	v j		0.50	0.15	ug/L
MW-3-4	1813014-03	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1813014-03	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1813014-03	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1813014-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1813014-03	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1813014-03	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1813014-03	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-4	1813014-03	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1813014-03	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1813014-03	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1813014-03	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1813014-03	cis-1,2-Dichloroethene	4/27/2018	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
MW-3-4	1813014-03	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1813014-03	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1813014-03	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1813014-03	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1813014-03	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1813014-03	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1813014-03	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1813014-03	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1813014-03	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1813014-03	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1813014-03	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1813014-03	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1813014-02	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-5	1813014-02	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1813014-02	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1813014-02	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-5	1813014-02	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-5	1813014-02	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-5	1813014-02	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	sec-Butylbenzene	4/27/2018	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
MW-3-5	1813014-02	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1813014-02	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-5	1813014-02	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-5	1813014-02	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-5	1813014-02	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-5	1813014-02	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-5	1813014-02	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-5	1813014-02	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-5	1813014-02	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1813014-02	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1813014-02	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-5	1813014-02	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-5	1813014-02	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1813014-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1813014-02	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-5	1813014-02	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-5	1813014-02	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1813014-02	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-5	1813014-02	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1813014-02	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1813014-02	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1813014-02	Tetrachloroethene	4/27/2018	0.25	Y	y	v j		0.50	0.23	ug/L
MW-3-5	1813014-02	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1813014

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-3-5	1813014-02	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1813014-02	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-5	1813014-02	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1813014-02	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-5	1813014-02	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-5	1813014-02	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-5	1813014-02	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-5	1813014-02	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
MW-3-5	1813014-02	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
MW-3-5	1813014-02	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
MW-3-5	1813014-02	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-5	1813014-02	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
MW-3-5	1813014-02	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-5	1813014-02	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-5	1813014-02	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
MW-3-5	1813014-02	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
MW-3-5	1813014-02	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-5	1813014-02	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-3-5	1813014-02	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-5	1813014-02	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
MW-3-5	1813014-02	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1813014-02	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
MW-3-5	1813014-02	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-5	1813014-02	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-5	1813014-02	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1813014

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-3-5	1813014-02	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-5	1813014-02	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1813014-02	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-5	1813014-02	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-5	1813014-02	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-5	1813014-02	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1813014-02	1,1-Dichloroethane	4/27/2018	0.17	Y	y	v j		0.50	0.15	ug/L
MW-3-5	1813014-02	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1813014-02	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1813014-02	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-5	1813014-02	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1813014-02	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-5	1813014-02	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1813014-02	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1813014-02	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1813014-02	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1813014-02	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-5	1813014-02	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-042318	1813014-08	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-042318	1813014-08	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
SB-2-042318	1813014-08	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
SB-2-042318	1813014-08	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L

SDG: 1813014

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-2-042318	1813014-08	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
SB-2-042318	1813014-08	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
SB-2-042318	1813014-08	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
SB-2-042318	1813014-08	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
SB-2-042318	1813014-08	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
SB-2-042318	1813014-08	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
SB-2-042318	1813014-08	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-042318	1813014-08	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
SB-2-042318	1813014-08	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
SB-2-042318	1813014-08	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-2-042318	1813014-08	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-042318	1813014-08	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-042318	1813014-08	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
SB-2-042318	1813014-08	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-042318	1813014-08	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
SB-2-042318	1813014-08	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-042318	1813014-08	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-042318	1813014-08	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-042318	1813014-08	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-042318	1813014-08	n-Butylbenzene	4/28/2018	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
SB-2-042318	1813014-08	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
SB-2-042318	1813014-08	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
SB-2-042318	1813014-08	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-042318	1813014-08	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-042318	1813014-08	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-042318	1813014-08	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-042318	1813014-08	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-042318	1813014-08	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-2-042318	1813014-08	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-042318	1813014-08	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-042318	1813014-08	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-042318	1813014-08	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-042318	1813014-08	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-042318	1813014-08	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-042318	1813014-08	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-042318	1813014-08	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-042318	1813014-08	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1813014

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-2-042318	1813014-08	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
SB-2-042318	1813014-08	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-042318	1813014-08	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
SB-2-042318	1813014-08	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
SB-2-042318	1813014-08	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-042318	1813014-08	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-042318	1813014-08	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-042318	1813014-08	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-042318	1813014-08	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-042318	1813014-08	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-042318	1813014-08	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-042318	1813014-08	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-042318	1813014-08	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
SB-2-042318	1813014-08	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-042318	1813014-08	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
SB-2-042318	1813014-08	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
SB-2-042318	1813014-08	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
SB-2-042318	1813014-08	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-042318	1813014-08	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1813014

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-2-042318	1813014-08	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-042318	1813014-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-042318	1813014-01	1,2,3-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-042318	1813014-01	Vinyl chloride	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-042318	1813014-01	1,3,5-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	1,2,4-Trimethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-042318	1813014-01	1,2,3-Trichloropropane	4/27/2018	1	Y	n	u		1.0	0.78	ug/L
TB-4-042318	1813014-01	Trichlorofluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	Trichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-042318	1813014-01	1,1,2-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-042318	1813014-01	Tetrachloroethene	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-042318	1813014-01	1,2,4-Trichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	2-Hexanone	4/27/2018	10	Y	n	u		10	5.0	ug/L
TB-4-042318	1813014-01	Naphthalene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-042318	1813014-01	Methyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	n-Propylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-042318	1813014-01	Styrene	4/27/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-042318	1813014-01	1,1,1,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-042318	1813014-01	Methylene chloride	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-042318	1813014-01	Acetone	4/27/2018	10	Y	n	u		10	6.6	ug/L
TB-4-042318	1813014-01	1,1,1-Trichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-042318	1813014-01	1,1,2,2-Tetrachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	o-Xylene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-042318	1813014-01	p- & m-Xylenes	4/27/2018	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1813014

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-4-042318	1813014-01	Tetrahydrofuran	4/27/2018	20	Y	n	u		20	5.2	ug/L
TB-4-042318	1813014-01	Propionitrile	4/27/2018	20	Y	n	u		20	6.2	ug/L
TB-4-042318	1813014-01	Pentachloroethane	4/27/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-4-042318	1813014-01	Methyl methacrylate	4/27/2018	5	Y	n	u		5.0	1.2	ug/L
TB-4-042318	1813014-01	Methyl isobutyl ketone	4/27/2018	10	Y	n	u		10	2.4	ug/L
TB-4-042318	1813014-01	Methyl iodide	4/27/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-4-042318	1813014-01	Ethyl t-butyl ether	4/27/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-4-042318	1813014-01	Methacrylonitrile	4/27/2018	10	Y	n	u		10	2.3	ug/L
TB-4-042318	1813014-01	Acrylonitrile	4/27/2018	5	Y	n	u		5.0	1.5	ug/L
TB-4-042318	1813014-01	Hexachloroethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-042318	1813014-01	p-Isopropyltoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	Ethyl methacrylate	4/27/2018	4	Y	n	u		4.0	1.3	ug/L
TB-4-042318	1813014-01	Diethyl ether	4/27/2018	2	Y	n	u		2.0	0.33	ug/L
TB-4-042318	1813014-01	trans-1,4-Dichloro-2-butene	4/27/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
TB-4-042318	1813014-01	Carbon disulfide	4/27/2018	1	Y	n	u		1.0	0.48	ug/L
TB-4-042318	1813014-01	t-Butyl alcohol	4/27/2018	10	Y	n	u		10	9.4	ug/L
TB-4-042318	1813014-01	t-Amyl Methyl ether	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-042318	1813014-01	Allyl chloride	4/27/2018	5	Y	n	u		5.0	0.47	ug/L
TB-4-042318	1813014-01	Methyl ethyl ketone	4/27/2018	10	Y	n	u		10	3.3	ug/L
TB-4-042318	1813014-01	Bromomethane	4/27/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-4-042318	1813014-01	Dibromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-042318	1813014-01	4-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-4-042318	1813014-01	2-Chlorotoluene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	Chloroform	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	Chlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L



SDG: 1813014

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-4-042318	1813014-01	Carbon tetrachloride	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	tert-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-042318	1813014-01	1,2-Dibromo-3-chloropropane	4/27/2018	1	Y	n	u		1.0	0.89	ug/L
TB-4-042318	1813014-01	n-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	Chloromethane	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-042318	1813014-01	Bromoform	4/27/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-4-042318	1813014-01	Bromodichloromethane	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-042318	1813014-01	Bromochloromethane	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-042318	1813014-01	Bromobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	Benzene	4/27/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-042318	1813014-01	Isopropylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	Toluene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	sec-Butylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-042318	1813014-01	1,3-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-042318	1813014-01	Hexachlorobutadiene	4/27/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-042318	1813014-01	Ethylbenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	trans-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-042318	1813014-01	cis-1,3-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-042318	1813014-01	Chloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	2,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-042318	1813014-01	1,2-Dibromoethane	4/27/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-042318	1813014-01	1,2-Dichloropropane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	trans-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	cis-1,2-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-042318	1813014-01	1,2-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1813014

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
TB-4-042318	1813014-01	1,2-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-042318	1813014-01	1,1-Dichloroethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	Dichlorodifluoromethane	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	1,4-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-042318	1813014-01	1,3-Dichlorobenzene	4/27/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-042318	1813014-01	1,1-Dichloroethene	4/27/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-042318	1813014-01	Dibromomethane	4/27/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-042318	1813014-01	1,1-Dichloropropene	4/27/2018	0.5	Y	n	u		0.50	0.19	ug/L

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-25-1	1813014-13	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-25-2	1813014-12	Hexavalent Chromium	4/23/2018	0.0021	Y	y	v		0.0020	0.0007	mg/L
MW-25-4	1813014-11	Hexavalent Chromium	4/23/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-25-5	1813014-09	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-1	1813014-06	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-2	1813014-05	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-3	1813014-04	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-4	1813014-03	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-5	1813014-02	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
SB-2-042318	1813014-08	Hexavalent Chromium	4/23/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
EB-4-042318	1813014-07	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L

SDG: 1813014

Analytical Method SM-2320B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-042318	1813014-07	Bicarbonate	5/2/2018	5	Y	n	u		5.0	5.0	mg/L
EB-4-042318	1813014-07	Total Alkalinity as CaCO3	5/2/2018	4.1	Y	n	u		4.1	4.1	mg/L
MW-25-1	1813014-13	Bicarbonate	5/2/2018	280	Y	y	v		5.0	5.0	mg/L
MW-25-1	1813014-13	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-25-1	1813014-13	Total Alkalinity as CaCO3	5/2/2018	230	Y	y	v		4.1	4.1	mg/L
MW-25-2	1813014-12	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-25-2	1813014-12	Bicarbonate	5/2/2018	230	Y	y	v		5.0	5.0	mg/L
MW-25-2	1813014-12	Total Alkalinity as CaCO3	5/2/2018	190	Y	y	v		4.1	4.1	mg/L
MW-25-4	1813014-11	Total Alkalinity as CaCO3	5/2/2018	230	Y	y	v		4.1	4.1	mg/L
MW-25-4	1813014-11	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-25-4	1813014-11	Bicarbonate	5/2/2018	280	Y	y	v		5.0	5.0	mg/L
MW-25-5	1813014-09	Total Alkalinity as CaCO3	5/2/2018	83	Y	y	v		4.1	4.1	mg/L
MW-25-5	1813014-09	Carbonate	5/2/2018	15	Y	y	v		2.5	2.5	mg/L
MW-25-5	1813014-09	Bicarbonate	5/2/2018	71	Y	y	v		5.0	5.0	mg/L
MW-3-1	1813014-06	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-3-1	1813014-06	Total Alkalinity as CaCO3	5/2/2018	230	Y	y	v		4.1	4.1	mg/L
MW-3-1	1813014-06	Bicarbonate	5/2/2018	280	Y	y	v		5.0	5.0	mg/L
MW-3-2	1813014-05	Total Alkalinity as CaCO3	5/2/2018	230	Y	y	v		4.1	4.1	mg/L
MW-3-2	1813014-05	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-3-2	1813014-05	Bicarbonate	5/2/2018	280	Y	y	v		5.0	5.0	mg/L
MW-3-3	1813014-04	Bicarbonate	5/2/2018	230	Y	y	v		5.0	5.0	mg/L
MW-3-3	1813014-04	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-3-3	1813014-04	Total Alkalinity as CaCO3	5/2/2018	190	Y	y	v		4.1	4.1	mg/L
MW-3-4	1813014-03	Bicarbonate	5/2/2018	230	Y	y	v		5.0	5.0	mg/L
MW-3-4	1813014-03	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L

SDG: 1813014

**Analytical Method** SM-2320B

<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-3-4	1813014-03	Total Alkalinity as CaCO3	5/2/2018	190	Y	y	v		4.1	4.1	mg/L
MW-3-5	1813014-02	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-3-5	1813014-02	Total Alkalinity as CaCO3	5/2/2018	170	Y	y	v		4.1	4.1	mg/L
MW-3-5	1813014-02	Bicarbonate	5/2/2018	200	Y	y	v		5.0	5.0	mg/L
SB-2-042318	1813014-08	Total Alkalinity as CaCO3	5/2/2018	4.1	Y	n	u		4.1	4.1	mg/L
SB-2-042318	1813014-08	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
SB-2-042318	1813014-08	Bicarbonate	5/2/2018	5	Y	n	u		5.0	5.0	mg/L

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** Volatiles

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813184

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-5-0424818	1813184-01	Water	04/24/18
MW-22-5	1813184-02	Water	04/24/18
MW-22-4	1813184-03	Water	04/24/18
MW-22-3	1813184-04	Water	04/24/18
DUP-3-2Q18	1813184-05	Water	04/24/18
MW-22-2	1813184-06	Water	04/24/18
EB-5-042418	1813184-07	Water	04/24/18
MW-22-1	1813184-08	Water	04/24/18
MW-26-2	1813184-09	Water	04/24/18
MW-26-1	1813184-10	Water	04/24/18
DUP-4-2Q18	1813184-11	Water	04/24/18
MW-22-2MS	1813184-06MS	Water	04/24/18
MW-22-2MSD	1813184-06MSD	Water	04/24/18

## 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
04/27/18 (27APR32)	Bromomethane	47.1	All samples in SDG 1813184	UJ (all non-detects)	P
04/27/18 (27APR33)	Methyl iodide Pentachloroethane	38.5 91.0	All samples in SDG 1813184	UJ (all non-detects) UJ (all non-detects)	P

## 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-5-0424818 was identified as a trip blank. No contaminants were found.

Sample EB-5-042418 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-22-3 and DUP-3-2Q18 and samples MW-26-1 and DUP-4-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-22-3	DUP-3-2Q18	
Carbon disulfide	0.50	0.48U	4

Compound	Concentration (ug/L)		RPD
	MW-26-1	DUP-4-2Q18	
Chloroform	0.54	0.23	81
Tetrachloroethene	1.2	0.52	79
Trichloroethene	0.47	0.19U	85

## 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 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 1813184**

Sample	Compound	Flag	A or P	Reason
TB-5-0424818 MW-22-5 MW-22-4 MW-22-3 DUP-3-2Q18 MW-22-2 EB-5-042418 MW-22-1 MW-26-2 MW-26-1 DUP-4-2Q18	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 1813184**

No Sample Data Qualified in this SDG

LDC #: 42411B1

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: 1813184

Level III

Laboratory: BC Laboratories, Inc.

Date: 6/15/18

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 <sup>2</sup> 1eV ≤ 20%
IV.	Continuing calibration	M	CCV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. 2B=7.
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LC9
X.	Field duplicates	M	D=4+5. 10+11
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

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-5-0424818	1813184-01	Water	04/24/18
2	MW-22-5	1813184-02	Water	04/24/18
3	MW-22-4	1813184-03	Water	04/24/18
4	MW-22-3	1813184-04	Water	04/24/18
5	DUP-3-2Q18	1813184-05	Water	04/24/18
6	MW-22-2	1813184-06	Water	04/24/18
7	EB-5-042418	1813184-07	Water	04/24/18
8	MW-22-1	1813184-08	Water	04/24/18
9	MW-26-2	1813184-09	Water	04/24/18
10	MW-26-1	1813184-10	Water	04/24/18
11	DUP-4-2Q18	1813184-11	Water	04/24/18
12	MW-22-2MS	1813184-06MS	Water	04/24/18
13	MW-22-2MSD	1813184-06MSD	Water	04/24/18

## 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	WWWW. 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 #: 241B1

### VALIDATION FINDINGS WORKSHEET Continuing Calibration

Page: 6 of 6  
Reviewer: [Signature]  
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 a continuing calibration standard analyzed at least once every 12 hours for each instrument?

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

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	<u>4/27/18</u>	<u>27APR32</u>	<u>B</u>	<u>47.1</u>	<u>All (NO)</u>	<u>↓ N/A</u>
		<u>↓ 33</u>	<u>Methyl iodide</u>	<u>38.5</u>		<u>↓</u>
			<u>2222</u>	<u>91.0</u>		

LDC#: 41181

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	4	5	
G	0.50	0.48U	4

Compound	Concentration (ug/L)		RPD
	10	11	
K	0.54	0.23	81
AA	1.2	0.52	79
S	0.47	0.19U	85

V:\FIELD DUPLICATES\Field Duplicates\FD\_Organics\2018\42411B1\_JPL.wpd

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 29, 2018

**Parameters:** Metals

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813184

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-5	1813184-02	Water	04/24/18
MW-22-4	1813184-03	Water	04/24/18
MW-22-3	1813184-04	Water	04/24/18
DUP-3-2Q18	1813184-05	Water	04/24/18
MW-22-2	1813184-06	Water	04/24/18
EB-5-042418	1813184-07	Water	04/24/18
MW-22-1	1813184-08	Water	04/24/18
MW-26-2	1813184-09	Water	04/24/18
MW-26-1	1813184-10	Water	04/24/18
DUP-4-2Q18	1813184-11	Water	04/24/18
MW-22-2MS	1813184-06MS	Water	04/24/18
MW-22-2MSD	1813184-06MSD	Water	04/24/18
MW-22-2DUP	1813184-06DUP	Water	04/24/18

## 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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

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 methods.

## 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)	Calcium Sodium	0.021111 mg/L 0.091835 mg/L	All samples in SDG 1813184
ICB/CCB	Arsenic Magnesium	0.78700 ug/L 0.028428 mg/L	All samples in SDG 1813184
ICB/CCB	Sodium	0.063203 mg/L	MW-22-5
ICB/CCB	Sodium	0.086179 mg/L	MW-22-4 MW-22-3 DUP-3-2Q18 MW-22-2 EB-5-042418 MW-22-1 MW-26-2 MW-26-1 DUP-4-2Q18

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-22-5	Arsenic	1.0 ug/L	1.0U ug/L
MW-22-4	Arsenic	0.74 ug/L	0.74U ug/L
MW-22-3	Arsenic	1.3 ug/L	1.3U ug/L
DUP-3-2Q18	Arsenic	0.80 ug/L	0.80U ug/L
MW-22-2	Arsenic	1.4 ug/L	1.4U ug/L
EB-5-042418	Calcium Sodium Magnesium	0.019 ug/L 0.10 mg/L 0.023 mg/L	0.019U ug/L 0.10U mg/L 0.023U mg/L

## VI. Field Blanks

Sample EB-5-042418 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-5-042418	Calcium Magnesium Sodium	0.019 0.023 0.10

## 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 with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-22-2MS/MSD (All samples in SDG 1813184)	Magnesium Sodium	130 (75-125) 135 (75-125)	133 (75-125) 135 (75-125)	J (all detects) J (all detects)	A

For MW-22-2MS/MSD, no data were qualified for Calcium percent recoveries outside the QC limits since the parent sample results were greater than 4X the spike concentration.

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 methods. Percent recoveries (%R) were within QC limits.

**XI. Field Duplicates**

Samples MW-22-3 and DUP-3-2Q18 and samples MW-26-1 and DUP-4-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-22-3	DUP-3-2Q18	
Iron	50 ug/L	41 ug/L	20
Arsenic	1.3 ug/L	0.80 ug/L	48
Chromium	2.2 ug/L	2.6 ug/L	17
Calcium	38 mg/L	37 mg/L	3
Magnesium	15 mg/L	14 mg/L	7
Sodium	34 mg/L	33 mg/L	3
Potassium	2.0 mg/L	1.9 mg/L	5

Analyte	Concentration		RPD
	MW-26-1	DUP-4-2Q18	
Iron	480 ug/L	330 ug/L	37
Chromium	0.65 ug/L	0.80 ug/L	21
Calcium	110 mg/L	100 mg/L	10
Magnesium	40 mg/L	37 mg/L	8
Sodium	33 mg/L	30 mg/L	10
Potassium	3.0 mg/L	2.9 mg/L	3

## **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 methods. No results were rejected in this SDG.

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

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. 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, 2Q2018**  
**Metals - Data Qualification Summary - SDG 1813184**

Sample	Analyte	Flag	A or P	Reason
MW-22-5 MW-22-4 MW-22-3 DUP-3-2Q18 MW-22-2 EB-5-042418 MW-22-1 MW-26-2 MW-26-1 DUP-4-2Q18	Magnesium Sodium	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)

**NASA JPL, 2Q2018**  
**Metals - Laboratory Blank Data Qualification Summary - SDG 1813184**

Sample	Analyte	Modified Final Concentration	A or P
MW-22-5	Arsenic	1.0U ug/L	A
MW-22-4	Arsenic	0.74U ug/L	A
MW-22-3	Arsenic	1.3U ug/L	A
DUP-3-2Q18	Arsenic	0.80U ug/L	A
MW-22-2	Arsenic	1.4U ug/L	A
EB-5-042418	Calcium Sodium Magnesium	0.019U ug/L 0.10U mg/L 0.023U mg/L	A

LDC #: 42411B4a

## VALIDATION COMPLETENESS WORKSHEET

Date: 6/26/18

SDG #: 1813184

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JK2nd Reviewer: KK**METHOD:** Metals (EPA Method 200.7/200.8)

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	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB=6
VII.	Matrix Spike/Matrix Spike Duplicates	SW	11, 12
VIII.	Duplicate sample analysis	A	13
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(3,4) (9,10)
XII.	Internal Standard (ICP-MS)	N	Not Reviewed 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-22-5	1813184-02	Water	04/24/18
2	MW-22-4	1813184-03	Water	04/24/18
3	MW-22-3	1813184-04	Water	04/24/18
4	DUP-3-2Q18	1813184-05	Water	04/24/18
5	MW-22-2	1813184-06	Water	04/24/18
6	EB-5-042418	1813184-07	Water	04/24/18
7	MW-22-1	1813184-08	Water	04/24/18
8	MW-26-2	1813184-09	Water	04/24/18
9	MW-26-1	1813184-10	Water	04/24/18
10	DUP-4-2Q18	1813184-11	Water	04/24/18
11	MW-22-2MS	1813184-06MS	Water	04/24/18
12	MW-22-2MSD	1813184-06MSD	Water	04/24/18
13	MW-22-2DUP	1813184-06DUP	Water	04/24/18
14				
15				

LDC #: 42411B4a

# VALIDATION COMPLETENESS WORKSHEET

Date: 6/24/13

SDG #: 1813184

Level III

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: YB

2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Element Reference**

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)		
1-10	W	Al, Sb, (As), Ba, Be, Cd, (Ca), (Cr), Co, Cu, (Fe), (Pb), (Mg), Mn, Hg, Ni, (K), Se, Ag, (Na), Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
8c		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
11-13	W	Al, Sb, (As), Ba, Be, Cd, (Ca), (Cr), Co, Cu, (Fe), (Pb), (Mg), Mn, Hg, Ni, (K), Se, Ag, (Na), Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
		<b>Analysis Method</b>		
		ICP		Al, Sb, As, Ba, Be, Cd, (Ca), Cr, Co, Cu, (Fe), (Pb), (Mg), Mn, Hg, Ni, (K), Se, Ag, (Na), Ti, V, Zn, Mo, B, Sn, Ti, U,
ICP-MS		Al, Sb, (As), Ba, Be, Cd, (Ca), (Cr), Co, Cu, (Fe), (Pb), Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Sn, Ti, U,		

Comments: Mercury by CVAA if performed



**VALIDATION FINDINGS WORKSHEET  
PB/ICB/CCB QUALIFIED SAMPLES**

**METHOD:** Trace metals (EPA SW 864 Method 6010B/6020/7000)  
Sample Concentration units, unless otherwise noted: mg/L

Soil preparation factor applied: NA  
Associated Samples: All

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level	1	2	3	4	5	6			
Ca	0.021111		0.10556						0.019			
Na	0.091835		0.45918						0.10			
As (ug/L)		0.78700	3.935	1.0	0.74	1.3	0.80	1.4				
Mg		0.028428	0.14214						0.023			

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level	6								
Na		0.063203	0.31602	0.10 <i>JS</i>								

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 2 - 10

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level	6								
Na		0.086179	0.4309	0.10								

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 #: 42411.84a  
 SDG #: 1813184

**VALIDATION FINDINGS WORKSHEET**  
Field Blanks

Page: 1 of 1  
 Reviewer: BS  
 2nd reviewer: KK

**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 ( )
Ca	0.019 mg/L
Mg	0.023 mg/L
Na	0.10 mg/L

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

Analyte	Concentration Units ( )

### VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates

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

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) ≤ 20% for 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 (l limits)	Associated Samples	Qualifications
	(11,12)	W	Mg	130 (75-125)	133 (75-125)		All	↓ det/A (Det)
			Na	135 ↓	135 ↓		↓	↓

Comments: (11,12); Ca > 4x

LDC#: <sup>411</sup>42346B4a  
 ✓

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

Page: 1 of 1  
 Reviewer: B  
 2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	3	4		
Iron	50	41	20	
Arsenic	1.3	0.80	48	
Chromium	2.2	2.6	17	
Calcium (mg/L)	38	37	3	
Magnesium (mg/L)	15	14	7	
Sodium (mg/L)	34	33	3	
Potassium (mg/L)	2.0	1.9	5	

Analyte	Concentration (ug/L)		RPD	
	9	10		
Iron	480	330	37	
Chromium	0.65	0.80	21	
Calcium (mg/L)	110	100	10	
Magnesium (mg/L)	40	37	8	
Sodium (mg/L)	33	30	10	
Potassium (mg/L)	3.0	2.9	3	

V:\FIELD DUPLICATES\Field Duplicates\FD\_inorganic\2018\42411B4a.wpd

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 27, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813184

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-5	1813184-02	Water	04/24/18
MW-22-4	1813184-03	Water	04/24/18
MW-22-3	1813184-04	Water	04/24/18
DUP-3-2Q18	1813184-05	Water	04/24/18
MW-22-2	1813184-06	Water	04/24/18
EB-5-042418	1813184-07	Water	04/24/18
MW-22-1	1813184-08	Water	04/24/18
MW-26-2	1813184-09	Water	04/24/18
MW-26-1	1813184-10	Water	04/24/18
DUP-4-2Q18	1813184-11	Water	04/24/18
MW-22-2MS	1813184-06MS	Water	04/24/18
MW-22-2MSD	1813184-06MSD	Water	04/24/18
MW-22-2DUP	1813184-06DUP	Water	04/24/18
EB-5-042418DUP	1813184-07DUP	Water	04/24/18

## 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:

Alkalinity by Standard Method 2320B

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

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
MW-22-5 MW-22-4 MW-22-3 DUP-3-2Q18 MW-22-2 EB-5-042418 MW-22-1 MW-26-2 MW-26-1 DUP-4-2Q18	pH	8 days	48 hours	J (all detects)	P

## 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-5-042418 was identified as an equipment blank. No contaminant concentrations were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-5-042418	Chloride	0.22
	Nitrate as N	0.035
	Sulfate	0.30

## 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-22-3 and DUP-3-2Q18 and samples MW-26-1 and DUP-4-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-22-3	DUP-3-2Q18	
Perchlorate	1.2 ug/L	2.0 ug/L	50
pH	8.28 SU	8.31 SU	0
Total dissolved solids	300 mg/L	300 mg/L	0
Chloride	26 mg/L	25 mg/L	4
Nitrate as N	6.9 mg/L	6.7 mg/L	3
Sulfate	19 mg/L	19 mg/L	0
Total Alkalinity	140 mg/L	140 mg/L	0
Bicarbonate	170 mg/L	160 mg/L	6
Hexavalent Chromium	0.0020 mg/L	0.0016 mg/L	22

Analyte	Concentration		RPD
	MW-26-1	DUP-4-2Q18	
Perchlorate	1.6 ug/L	1.7 ug/L	6
pH	7.44 SU	7.70 SU	3
Total dissolved solids	570 mg/L	570 mg/L	0

Analyte	Concentration		RPD
	MW-26-1	DUP-4-2Q18	
Chloride	79 mg/L	79 mg/L	0
Nitrate as N	6.4 mg/L	6.4 mg/L	0
Sulfate	100 mg/L	100 mg/L	0
Nitrite as N	0.31 mg/L	0.35 mg/L	12
Total Alkalinity	250 mg/L	250 mg/L	0
Bicarbonate	300 mg/L	300 mg/L	0

### 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.

Due to technical holding time, 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, 2Q2018**  
**Wet Chemistry - Data Qualification Summary - SDG 1813184**

Sample	Analyte	Flag	A or P	Reason
MW-22-5 MW-22-4 MW-22-3 DUP-3-2Q18 MW-22-2 EB-5-042418 MW-22-1 MW-26-2 MW-26-1 DUP-4-2Q18	pH	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1813184**

No Sample Data Qualified in this SDG

LDC #: 42411B6

**VALIDATION COMPLETENESS WORKSHEET**

Date: 6/26/18

SDG #: 1813184

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JB

2nd Reviewer: KR

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

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 / SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	SW	EB=6
VI.	Matrix Spike/Matrix Spike Duplicates	A	(11,12)
VII.	Duplicate sample analysis	A	13,14
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(3,4) (9,10)
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-22-5	1813184-02	Water	04/24/18
2	MW-22-4	1813184-03	Water	04/24/18
3	MW-22-3	1813184-04	Water	04/24/18
4	DUP-3-2Q18	1813184-05	Water	04/24/18
5	MW-22-2	1813184-06	Water	04/24/18
6	EB-5-042418	1813184-07	Water	04/24/18
7	MW-22-1	1813184-08	Water	04/24/18
8	MW-26-2	1813184-09	Water	04/24/18
9	MW-26-1	1813184-10	Water	04/24/18
10	DUP-4-2Q18	1813184-11	Water	04/24/18
11	MW-22-2MS	1813184-06MS	Water	04/24/18
12	MW-22-2MSD	1813184-06MSD	Water	04/24/18
13	MW-22-2DUP	1813184-06DUP	Water	04/24/18
14	EB-5-042418DUP	1813184-07DUP	Water	04/24/18
15				
16				

LDC #: 42411B6

# VALIDATION COMPLETENESS WORKSHEET

Date: 6/26/18

SDG #: 1813184

Level III

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JB

2nd Reviewer: JK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH EPA Method 150.1, TDS (EPA Method 160.1)

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LDC #: 4241616

# VALIDATION FINDINGS WORKSHEET

## Sample Specific Analysis Reference

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

All circled methods are applicable to each sample.

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

Comments: \_\_\_\_\_

# VALIDATION FINDINGS WORKSHEET

## Technical Holding Times

All circled dates have exceeded the technical holding time.  
Y/N N/A Were all samples preserved as applicable to each method?  
Y/N N/A Were all cooler temperatures within validation criteria?

Method:		EPA 150.1					
Parameters:		pH					
Technical holding time:		48 hours.					
Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
1-10	4/24/18	5/2/18	8 days	✓/W/P (Det)			

LDC #: 42411.06  
 SDG #: 1813184

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

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

**METHOD:** Inorganics

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 ( )
Cl	0.22 mg/L
NO <sub>3</sub>	0.035 mg/L
SO <sub>4</sub>	0.30 mg/L

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

Analyte	Concentration Units ( )



**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD
	3	4	
Perchlorate (ug/L)	1.2	2.0	50
pH (pH Units)	8.28	8.31	0
TDS	300	300	0
Chloride	26	25	4
Nitrate as N	6.9	6.7	3
Sulfate	19	19	0
Total Alkalinity	140	140	0
Bicarbonate	170	160	6
Hexavalent Chromium	0.0020	0.0016	22

Analyte	Concentration (mg/L)		RPD
	9	10	
Perchlorate (ug/L)	1.6	1.7	6
pH (pH Units)	7.44	7.70	3
TDS	570	570	0
Chloride	79	79	0
Nitrate as N	6.4	6.4	0
Sulfate	100	100	0
Nitrite as N	0.31	0.35	12
Total Alkalinity	250	250	0
Bicarbonate	300	300	0

## NASA JPL, 2Q2018 - LDC# 42411B

SDG: 1813184

<b>Analytical Method</b>											
EPA-150.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-3-2Q18	1813184-05	pH	5/2/2018	8.31	Y	y	v	J	0.05	0.05	pH Units
DUP-4-2Q18	1813184-11	pH	5/3/2018	7.7	Y	y	v	J	0.05	0.05	pH Units
EB-5-042418	1813184-07	pH	5/3/2018	5.36	Y	y	v	J	0.05	0.05	pH Units
MW-22-1	1813184-08	pH	5/3/2018	7.78	Y	y	v	J	0.05	0.05	pH Units
MW-22-2	1813184-06	pH	5/2/2018	8.23	Y	y	v	J	0.05	0.05	pH Units
MW-22-3	1813184-04	pH	5/2/2018	8.28	Y	y	v	J	0.05	0.05	pH Units
MW-22-4	1813184-03	pH	5/2/2018	8.11	Y	y	v	J	0.05	0.05	pH Units
MW-22-5	1813184-02	pH	5/2/2018	9.34	Y	y	v	J	0.05	0.05	pH Units
MW-26-1	1813184-10	pH	5/3/2018	7.44	Y	y	v	J	0.05	0.05	pH Units
MW-26-2	1813184-09	pH	5/3/2018	8.02	Y	y	v	J	0.05	0.05	pH Units

<b>Analytical Method</b>											
EPA-160.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-3-2Q18	1813184-05	Total Dissolved Solids @ 180 C	4/30/2018	300	Y	y	v		20	20	mg/L
DUP-4-2Q18	1813184-11	Total Dissolved Solids @ 180 C	4/30/2018	570	Y	y	v		33	33	mg/L
EB-5-042418	1813184-07	Total Dissolved Solids @ 180 C	4/30/2018	6.7	Y	n	u		6.7	6.7	mg/L
MW-22-1	1813184-08	Total Dissolved Solids @ 180 C	4/30/2018	840	Y	y	v		50	50	mg/L
MW-22-2	1813184-06	Total Dissolved Solids @ 180 C	4/30/2018	410	Y	y	v		20	20	mg/L
MW-22-3	1813184-04	Total Dissolved Solids @ 180 C	4/30/2018	300	Y	y	v		20	20	mg/L
MW-22-4	1813184-03	Total Dissolved Solids @ 180 C	4/30/2018	270	Y	y	v		20	20	mg/L
MW-22-5	1813184-02	Total Dissolved Solids @ 180 C	4/30/2018	230	Y	y	v		20	20	mg/L
MW-26-1	1813184-10	Total Dissolved Solids @ 180 C	4/30/2018	570	Y	y	v		33	33	mg/L
MW-26-2	1813184-09	Total Dissolved Solids @ 180 C	4/30/2018	490	Y	y	v		20	20	mg/L

SDG: 1813184

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-3-2Q18	1813184-05	Total Recoverable Potassium	5/7/2018	1.9	Y	y	v		1.0	0.10	mg/L
DUP-3-2Q18	1813184-05	Total Recoverable Calcium	5/7/2018	37	Y	y	v		0.10	0.014	mg/L
DUP-3-2Q18	1813184-05	Total Recoverable Magnesium	5/7/2018	14	Y	y	v	J	0.050	0.019	mg/L
DUP-3-2Q18	1813184-05	Total Recoverable Sodium	5/7/2018	33	Y	y	v	J	0.50	0.051	mg/L
DUP-3-2Q18	1813184-05	Total Recoverable Iron	5/7/2018	41	Y	y	v j		50	30	ug/L
DUP-4-2Q18	1813184-11	Total Recoverable Potassium	5/7/2018	2.9	Y	y	v		1.0	0.10	mg/L
DUP-4-2Q18	1813184-11	Total Recoverable Sodium	5/7/2018	30	Y	y	v	J	0.50	0.051	mg/L
DUP-4-2Q18	1813184-11	Total Recoverable Magnesium	5/7/2018	37	Y	y	v	J	0.050	0.019	mg/L
DUP-4-2Q18	1813184-11	Total Recoverable Calcium	5/7/2018	100	Y	y	v		0.10	0.014	mg/L
DUP-4-2Q18	1813184-11	Total Recoverable Iron	5/7/2018	330	Y	y	v		50	30	ug/L
EB-5-042418	1813184-07	Total Recoverable Calcium	5/7/2018	0.019	Y	y	v j	U	0.10	0.014	mg/L
EB-5-042418	1813184-07	Total Recoverable Iron	5/7/2018	50	Y	n	u		50	30	ug/L
EB-5-042418	1813184-07	Total Recoverable Magnesium	5/7/2018	0.023	Y	y	v j	UJ	0.050	0.019	mg/L
EB-5-042418	1813184-07	Total Recoverable Sodium	5/7/2018	0.1	Y	y	v j	UJ	0.50	0.051	mg/L
EB-5-042418	1813184-07	Total Recoverable Potassium	5/7/2018	1	Y	n	u		1.0	0.10	mg/L
MW-22-1	1813184-08	Total Recoverable Iron	5/7/2018	200	Y	y	v		50	30	ug/L
MW-22-1	1813184-08	Total Recoverable Potassium	5/7/2018	2.9	Y	y	v		1.0	0.10	mg/L
MW-22-1	1813184-08	Total Recoverable Sodium	5/7/2018	35	Y	y	v	J	0.50	0.051	mg/L
MW-22-1	1813184-08	Total Recoverable Magnesium	5/7/2018	53	Y	y	v	J	0.050	0.019	mg/L
MW-22-1	1813184-08	Total Recoverable Calcium	5/7/2018	150	Y	y	v		0.10	0.014	mg/L
MW-22-2	1813184-06	Total Recoverable Magnesium	5/7/2018	22	Y	y	v	J	0.050	0.019	mg/L
MW-22-2	1813184-06	Total Recoverable Iron	5/7/2018	66	Y	y	v		50	30	ug/L
MW-22-2	1813184-06	Total Recoverable Sodium	5/7/2018	29	Y	y	v	J	0.50	0.051	mg/L
MW-22-2	1813184-06	Total Recoverable Calcium	5/7/2018	55	Y	y	v		0.10	0.014	mg/L
MW-22-2	1813184-06	Total Recoverable Potassium	5/7/2018	2.1	Y	y	v		1.0	0.10	mg/L

SDG: 1813184

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1813184-04	Total Recoverable Potassium	5/7/2018	2	Y	y	v		1.0	0.10	mg/L
MW-22-3	1813184-04	Total Recoverable Iron	5/7/2018	50	Y	y	v		50	30	ug/L
MW-22-3	1813184-04	Total Recoverable Sodium	5/7/2018	34	Y	y	v	J	0.50	0.051	mg/L
MW-22-3	1813184-04	Total Recoverable Calcium	5/7/2018	38	Y	y	v		0.10	0.014	mg/L
MW-22-3	1813184-04	Total Recoverable Magnesium	5/7/2018	15	Y	y	v	J	0.050	0.019	mg/L
MW-22-4	1813184-03	Total Recoverable Calcium	5/7/2018	37	Y	y	v		0.10	0.014	mg/L
MW-22-4	1813184-03	Total Recoverable Sodium	5/7/2018	28	Y	y	v	J	0.50	0.051	mg/L
MW-22-4	1813184-03	Total Recoverable Potassium	5/7/2018	1.7	Y	y	v		1.0	0.10	mg/L
MW-22-4	1813184-03	Total Recoverable Magnesium	5/7/2018	11	Y	y	v	J	0.050	0.019	mg/L
MW-22-4	1813184-03	Total Recoverable Iron	5/7/2018	47	Y	y	v j		50	30	ug/L
MW-22-5	1813184-02	Total Recoverable Iron	5/7/2018	61	Y	y	v		50	30	ug/L
MW-22-5	1813184-02	Total Recoverable Potassium	5/7/2018	0.83	Y	y	v j		1.0	0.10	mg/L
MW-22-5	1813184-02	Total Recoverable Sodium	5/7/2018	65	Y	y	v	J	0.50	0.051	mg/L
MW-22-5	1813184-02	Total Recoverable Magnesium	5/7/2018	1.2	Y	y	v	J	0.050	0.019	mg/L
MW-22-5	1813184-02	Total Recoverable Calcium	5/7/2018	4.1	Y	y	v		0.10	0.014	mg/L
MW-26-1	1813184-10	Total Recoverable Magnesium	5/7/2018	40	Y	y	v	J	0.050	0.019	mg/L
MW-26-1	1813184-10	Total Recoverable Calcium	5/7/2018	110	Y	y	v		0.10	0.014	mg/L
MW-26-1	1813184-10	Total Recoverable Sodium	5/7/2018	33	Y	y	v	J	0.50	0.051	mg/L
MW-26-1	1813184-10	Total Recoverable Potassium	5/7/2018	3	Y	y	v		1.0	0.10	mg/L
MW-26-1	1813184-10	Total Recoverable Iron	5/7/2018	480	Y	y	v		50	30	ug/L
MW-26-2	1813184-09	Total Recoverable Iron	5/7/2018	100	Y	y	v		50	30	ug/L
MW-26-2	1813184-09	Total Recoverable Calcium	5/7/2018	52	Y	y	v		0.10	0.014	mg/L
MW-26-2	1813184-09	Total Recoverable Magnesium	5/7/2018	32	Y	y	v	J	0.050	0.019	mg/L
MW-26-2	1813184-09	Total Recoverable Potassium	5/7/2018	2.9	Y	y	v		1.0	0.10	mg/L
MW-26-2	1813184-09	Total Recoverable Sodium	5/7/2018	36	Y	y	v	J	0.50	0.051	mg/L

SDG: 1813184

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-3-2Q18	1813184-05	Total Recoverable Arsenic	5/3/2018	0.8	Y	y	v j	U	2.0	0.70	ug/L
DUP-3-2Q18	1813184-05	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
DUP-3-2Q18	1813184-05	Total Recoverable Chromium	5/3/2018	2.6	Y	y	v j		3.0	0.50	ug/L
DUP-4-2Q18	1813184-11	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
DUP-4-2Q18	1813184-11	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
DUP-4-2Q18	1813184-11	Total Recoverable Chromium	5/3/2018	0.8	Y	y	v j		3.0	0.50	ug/L
EB-5-042418	1813184-07	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
EB-5-042418	1813184-07	Total Recoverable Chromium	5/3/2018	3	Y	n	u		3.0	0.50	ug/L
EB-5-042418	1813184-07	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-22-1	1813184-08	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-22-1	1813184-08	Total Recoverable Chromium	5/3/2018	1	Y	y	v j		3.0	0.50	ug/L
MW-22-1	1813184-08	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-22-2	1813184-06	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-22-2	1813184-06	Total Recoverable Arsenic	5/3/2018	1.4	Y	y	v j	U	2.0	0.70	ug/L
MW-22-2	1813184-06	Total Recoverable Chromium	5/3/2018	2	Y	y	v j		3.0	0.50	ug/L
MW-22-3	1813184-04	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-22-3	1813184-04	Total Recoverable Chromium	5/3/2018	2.2	Y	y	v j		3.0	0.50	ug/L
MW-22-3	1813184-04	Total Recoverable Arsenic	5/3/2018	1.3	Y	y	v j	U	2.0	0.70	ug/L
MW-22-4	1813184-03	Total Recoverable Chromium	5/3/2018	3.1	Y	y	v		3.0	0.50	ug/L
MW-22-4	1813184-03	Total Recoverable Arsenic	5/3/2018	0.74	Y	y	v j	U	2.0	0.70	ug/L
MW-22-4	1813184-03	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-22-5	1813184-02	Total Recoverable Arsenic	5/3/2018	1	Y	y	v j	U	2.0	0.70	ug/L
MW-22-5	1813184-02	Total Recoverable Chromium	5/3/2018	3	Y	n	u		3.0	0.50	ug/L
MW-22-5	1813184-02	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-26-1	1813184-10	Total Recoverable Chromium	5/3/2018	0.65	Y	y	v j		3.0	0.50	ug/L

SDG: 1813184

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1813184-10	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-26-1	1813184-10	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-26-2	1813184-09	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-26-2	1813184-09	Total Recoverable Chromium	5/3/2018	0.6	Y	y	v j		3.0	0.50	ug/L
MW-26-2	1813184-09	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	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
DUP-3-2Q18	1813184-05	Chloride	4/25/2018	25	Y	y	v		0.50	0.077	mg/L
DUP-3-2Q18	1813184-05	Sulfate	4/25/2018	19	Y	y	v		1.0	0.13	mg/L
DUP-3-2Q18	1813184-05	Nitrate as N	4/25/2018	6.7	Y	y	v		0.10	0.021	mg/L
DUP-4-2Q18	1813184-11	Nitrate as N	4/25/2018	6.4	Y	y	v		0.10	0.021	mg/L
DUP-4-2Q18	1813184-11	Chloride	4/25/2018	79	Y	y	v		0.50	0.077	mg/L
DUP-4-2Q18	1813184-11	Sulfate	4/25/2018	100	Y	y	v		1.0	0.13	mg/L
EB-5-042418	1813184-07	Chloride	4/25/2018	0.22	Y	y	v j		0.50	0.077	mg/L
EB-5-042418	1813184-07	Sulfate	4/25/2018	0.3	Y	y	v j		1.0	0.13	mg/L
EB-5-042418	1813184-07	Nitrate as N	4/25/2018	0.035	Y	y	v j		0.10	0.021	mg/L
MW-22-1	1813184-08	Sulfate	4/25/2018	180	Y	y	v		1.0	0.13	mg/L
MW-22-1	1813184-08	Nitrate as N	4/25/2018	11	Y	y	v		0.10	0.021	mg/L
MW-22-1	1813184-08	Chloride	4/25/2018	120	Y	y	v		0.50	0.077	mg/L
MW-22-2	1813184-06	Nitrate as N	4/25/2018	7.7	Y	y	v		0.10	0.021	mg/L
MW-22-2	1813184-06	Sulfate	4/25/2018	45	Y	y	v		1.0	0.13	mg/L
MW-22-2	1813184-06	Chloride	4/25/2018	46	Y	y	v		0.50	0.077	mg/L
MW-22-3	1813184-04	Chloride	4/25/2018	26	Y	y	v		0.50	0.077	mg/L
MW-22-3	1813184-04	Sulfate	4/25/2018	19	Y	y	v		1.0	0.13	mg/L

SDG: 1813184

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-22-3	1813184-04	Nitrate as N	4/25/2018	6.9	Y	y	v		0.10	0.021	mg/L
MW-22-4	1813184-03	Sulfate	4/25/2018	10	Y	y	v		1.0	0.13	mg/L
MW-22-4	1813184-03	Chloride	4/25/2018	13	Y	y	v		0.50	0.077	mg/L
MW-22-4	1813184-03	Nitrate as N	4/25/2018	4.2	Y	y	v		0.10	0.021	mg/L
MW-22-5	1813184-02	Chloride	4/25/2018	6.8	Y	y	v		0.50	0.077	mg/L
MW-22-5	1813184-02	Sulfate	4/25/2018	26	Y	y	v		1.0	0.13	mg/L
MW-22-5	1813184-02	Nitrate as N	4/25/2018	0.032	Y	y	v j		0.10	0.021	mg/L
MW-26-1	1813184-10	Nitrate as N	4/25/2018	6.4	Y	y	v		0.10	0.021	mg/L
MW-26-1	1813184-10	Chloride	4/25/2018	79	Y	y	v		0.50	0.077	mg/L
MW-26-1	1813184-10	Sulfate	4/25/2018	100	Y	y	v		1.0	0.13	mg/L
MW-26-2	1813184-09	Nitrate as N	4/25/2018	2.1	Y	y	v		0.10	0.021	mg/L
MW-26-2	1813184-09	Chloride	4/25/2018	66	Y	y	v		0.50	0.077	mg/L
MW-26-2	1813184-09	Sulfate	4/25/2018	82	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-3-2Q18	1813184-05	Perchlorate	5/10/2018	2	Y	y	v j		4.0	0.58	ug/L
DUP-4-2Q18	1813184-11	Perchlorate	5/10/2018	1.7	Y	y	v j		4.0	0.58	ug/L
EB-5-042418	1813184-07	Perchlorate	5/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-22-1	1813184-08	Perchlorate	5/10/2018	2.6	Y	y	v j		4.0	0.58	ug/L
MW-22-2	1813184-06	Perchlorate	5/10/2018	2.1	Y	y	v j		4.0	0.58	ug/L
MW-22-3	1813184-04	Perchlorate	5/10/2018	1.2	Y	y	v j		4.0	0.58	ug/L
MW-22-4	1813184-03	Perchlorate	5/10/2018	0.83	Y	y	v j		4.0	0.58	ug/L
MW-22-5	1813184-02	Perchlorate	5/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-26-1	1813184-10	Perchlorate	5/10/2018	1.6	Y	y	v j		4.0	0.58	ug/L

SDG: 1813184

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-26-2	1813184-09	Perchlorate	5/10/2018	2.1	Y	y	v j		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-3-2Q18	1813184-05	Nitrite as N	4/25/2018	0.05	Y	n	u		0.050	0.010	mg/L
DUP-4-2Q18	1813184-11	Nitrite as N	4/25/2018	0.35	Y	y	v		0.050	0.010	mg/L
EB-5-042418	1813184-07	Nitrite as N	4/25/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-22-1	1813184-08	Nitrite as N	4/25/2018	0.23	Y	y	v		0.050	0.010	mg/L
MW-22-2	1813184-06	Nitrite as N	4/25/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-22-3	1813184-04	Nitrite as N	4/25/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-22-4	1813184-03	Nitrite as N	4/25/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-22-5	1813184-02	Nitrite as N	4/25/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-26-1	1813184-10	Nitrite as N	4/25/2018	0.31	Y	y	v		0.050	0.010	mg/L
MW-26-2	1813184-09	Nitrite as N	4/25/2018	2.2	Y	y	v		0.25	0.050	mg/L

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-3-2Q18	1813184-05	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-2Q18	1813184-05	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-2Q18	1813184-05	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-3-2Q18	1813184-05	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-2Q18	1813184-05	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-2Q18	1813184-05	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-2Q18	1813184-05	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L



SDG: 1813184

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-3-2Q18	1813184-05	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-2Q18	1813184-05	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-2Q18	1813184-05	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-3-2Q18	1813184-05	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-3-2Q18	1813184-05	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-3-2Q18	1813184-05	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-2Q18	1813184-05	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-3-2Q18	1813184-05	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-3-2Q18	1813184-05	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-3-2Q18	1813184-05	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-2Q18	1813184-05	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-3-2Q18	1813184-05	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
DUP-3-2Q18	1813184-05	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
DUP-3-2Q18	1813184-05	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-3-2Q18	1813184-05	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-3-2Q18	1813184-05	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-2Q18	1813184-05	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
DUP-3-2Q18	1813184-05	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	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-3-2Q18	1813184-05	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
DUP-3-2Q18	1813184-05	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-3-2Q18	1813184-05	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
DUP-3-2Q18	1813184-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-2Q18	1813184-05	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-3-2Q18	1813184-05	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-3-2Q18	1813184-05	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-3-2Q18	1813184-05	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-3-2Q18	1813184-05	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-3-2Q18	1813184-05	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-2Q18	1813184-05	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-3-2Q18	1813184-05	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
DUP-3-2Q18	1813184-05	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-3-2Q18	1813184-05	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
DUP-3-2Q18	1813184-05	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-3-2Q18	1813184-05	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
DUP-3-2Q18	1813184-05	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-3-2Q18	1813184-05	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-3-2Q18	1813184-05	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-3-2Q18	1813184-05	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	sec-Butylbenzene	4/28/2018	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-3-2Q18	1813184-05	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-3-2Q18	1813184-05	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-3-2Q18	1813184-05	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-3-2Q18	1813184-05	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-2Q18	1813184-05	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-3-2Q18	1813184-05	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-3-2Q18	1813184-05	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-2Q18	1813184-05	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-3-2Q18	1813184-05	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-3-2Q18	1813184-05	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-3-2Q18	1813184-05	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-2Q18	1813184-05	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-3-2Q18	1813184-05	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-3-2Q18	1813184-05	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-2Q18	1813184-05	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-4-2Q18	1813184-11	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-4-2Q18	1813184-11	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-4-2Q18	1813184-11	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	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-4-2Q18	1813184-11	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-2Q18	1813184-11	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-4-2Q18	1813184-11	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-4-2Q18	1813184-11	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-4-2Q18	1813184-11	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-2Q18	1813184-11	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-4-2Q18	1813184-11	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-4-2Q18	1813184-11	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-4-2Q18	1813184-11	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
DUP-4-2Q18	1813184-11	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-4-2Q18	1813184-11	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-4-2Q18	1813184-11	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-4-2Q18	1813184-11	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-4-2Q18	1813184-11	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-4-2Q18	1813184-11	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-2Q18	1813184-11	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
DUP-4-2Q18	1813184-11	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-2Q18	1813184-11	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-4-2Q18	1813184-11	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-2Q18	1813184-11	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-4-2Q18	1813184-11	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-4-2Q18	1813184-11	Dibromochloromethane	4/28/2018	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	
DUP-4-2Q18	1813184-11	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
DUP-4-2Q18	1813184-11	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L	
DUP-4-2Q18	1813184-11	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L	
DUP-4-2Q18	1813184-11	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L	
DUP-4-2Q18	1813184-11	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L	
DUP-4-2Q18	1813184-11	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L	
DUP-4-2Q18	1813184-11	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L	
DUP-4-2Q18	1813184-11	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L	
DUP-4-2Q18	1813184-11	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L	
DUP-4-2Q18	1813184-11	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
DUP-4-2Q18	1813184-11	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L	
DUP-4-2Q18	1813184-11	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L	
DUP-4-2Q18	1813184-11	Chloroform	4/28/2018	0.23	Y	y	v j		0.50	0.14	ug/L	
DUP-4-2Q18	1813184-11	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L	
DUP-4-2Q18	1813184-11	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-4-2Q18	1813184-11	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L	
DUP-4-2Q18	1813184-11	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L	
DUP-4-2Q18	1813184-11	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L	
DUP-4-2Q18	1813184-11	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-4-2Q18	1813184-11	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L	
DUP-4-2Q18	1813184-11	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L	
DUP-4-2Q18	1813184-11	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-4-2Q18	1813184-11	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L	
DUP-4-2Q18	1813184-11	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L	
DUP-4-2Q18	1813184-11	Trichloroethene	4/28/2018	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
DUP-4-2Q18	1813184-11	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-2Q18	1813184-11	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-2Q18	1813184-11	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-2Q18	1813184-11	Tetrachloroethene	4/28/2018	0.52	Y	y	v		0.50	0.23	ug/L
DUP-4-2Q18	1813184-11	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-2Q18	1813184-11	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-2Q18	1813184-11	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-2Q18	1813184-11	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-4-2Q18	1813184-11	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-2Q18	1813184-11	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-4-2Q18	1813184-11	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-4-2Q18	1813184-11	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-2Q18	1813184-11	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-2Q18	1813184-11	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-2Q18	1813184-11	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-4-2Q18	1813184-11	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-2Q18	1813184-11	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-2Q18	1813184-11	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
DUP-4-2Q18	1813184-11	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-2Q18	1813184-11	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-2Q18	1813184-11	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-4-2Q18	1813184-11	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	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
DUP-4-2Q18	1813184-11	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-2Q18	1813184-11	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-4-2Q18	1813184-11	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
EB-5-042418	1813184-07	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-042418	1813184-07	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-5-042418	1813184-07	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
EB-5-042418	1813184-07	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
EB-5-042418	1813184-07	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
EB-5-042418	1813184-07	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
EB-5-042418	1813184-07	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-042418	1813184-07	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
EB-5-042418	1813184-07	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-5-042418	1813184-07	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
EB-5-042418	1813184-07	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
EB-5-042418	1813184-07	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
EB-5-042418	1813184-07	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
EB-5-042418	1813184-07	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
EB-5-042418	1813184-07	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
EB-5-042418	1813184-07	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-5-042418	1813184-07	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
EB-5-042418	1813184-07	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
EB-5-042418	1813184-07	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-5-042418	1813184-07	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
EB-5-042418	1813184-07	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
EB-5-042418	1813184-07	o-Xylene	4/28/2018	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
EB-5-042418	1813184-07	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-5-042418	1813184-07	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-5-042418	1813184-07	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-042418	1813184-07	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-5-042418	1813184-07	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-042418	1813184-07	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-042418	1813184-07	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-042418	1813184-07	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-042418	1813184-07	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-5-042418	1813184-07	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-5-042418	1813184-07	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-5-042418	1813184-07	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
EB-5-042418	1813184-07	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-5-042418	1813184-07	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-5-042418	1813184-07	2-Chlorotoluene	4/28/2018	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
EB-5-042418	1813184-07	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-042418	1813184-07	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-042418	1813184-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-042418	1813184-07	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
EB-5-042418	1813184-07	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-042418	1813184-07	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-042418	1813184-07	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-042418	1813184-07	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-042418	1813184-07	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-5-042418	1813184-07	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-042418	1813184-07	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-5-042418	1813184-07	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-5-042418	1813184-07	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-042418	1813184-07	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-042418	1813184-07	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-5-042418	1813184-07	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	tert-Butylbenzene	4/28/2018	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-5-042418	1813184-07	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-042418	1813184-07	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-042418	1813184-07	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-5-042418	1813184-07	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-5-042418	1813184-07	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-042418	1813184-07	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-042418	1813184-07	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-042418	1813184-07	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1813184-08	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1813184-08	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-1	1813184-08	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-1	1813184-08	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-22-1	1813184-08	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1813184-08	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1813184-08	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-1	1813184-08	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	Trichloroethene	4/28/2018	0.69	Y	y	v		0.50	0.19	ug/L
MW-22-1	1813184-08	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-22-1	1813184-08	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1813184-08	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1813184-08	1,2,3-Trichlorobenzene	4/28/2018	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-22-1	1813184-08	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1813184-08	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-22-1	1813184-08	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1813184-08	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-1	1813184-08	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-22-1	1813184-08	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-22-1	1813184-08	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-1	1813184-08	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-1	1813184-08	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-1	1813184-08	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-1	1813184-08	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-1	1813184-08	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-22-1	1813184-08	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-22-1	1813184-08	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-1	1813184-08	Tetrachloroethene	4/28/2018	0.24	Y	y	v j		0.50	0.23	ug/L
MW-22-1	1813184-08	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-1	1813184-08	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-1	1813184-08	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-22-1	1813184-08	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1813184-08	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1813184-08	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1813184-08	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	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-22-1	1813184-08	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1813184-08	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-1	1813184-08	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1813184-08	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1813184-08	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1813184-08	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-1	1813184-08	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-1	1813184-08	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1813184-08	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1813184-08	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	Chloroform	4/28/2018	0.36	Y	y	v j		0.50	0.14	ug/L
MW-22-1	1813184-08	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1813184-08	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1813184-08	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1813184-08	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1813184-08	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1813184-08	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1813184-08	p-Isopropyltoluene	4/28/2018	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-22-1	1813184-08	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1813184-08	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1813184-08	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1813184-08	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1813184-08	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1813184-08	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1813184-08	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1813184-08	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1813184-08	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1813184-08	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1813184-08	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1813184-06	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1813184-06	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-2	1813184-06	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1813184-06	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1813184-06	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1813184-06	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1813184-06	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1813184

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-22-2	1813184-06	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1813184-06	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1813184-06	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1813184-06	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1813184-06	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1813184-06	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1813184-06	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1813184-06	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1813184-06	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1813184-06	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1813184-06	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1813184-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1813184-06	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1813184-06	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1813184-06	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1813184-06	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-2	1813184-06	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-2	1813184-06	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	sec-Butylbenzene	4/28/2018	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
MW-22-2	1813184-06	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1813184-06	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1813184-06	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1813184-06	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1813184-06	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1813184-06	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1813184-06	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1813184-06	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1813184-06	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1813184-06	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1813184-06	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-2	1813184-06	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1813184-06	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-2	1813184-06	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1813184-06	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1813184-06	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-2	1813184-06	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1813184-06	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1813184-06	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-2	1813184-06	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L

SDG: 1813184

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-22-2	1813184-06	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1813184-06	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-2	1813184-06	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-22-2	1813184-06	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-2	1813184-06	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-22-2	1813184-06	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-22-2	1813184-06	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-22-2	1813184-06	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1813184-06	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-22-2	1813184-06	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1813184-06	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-22-2	1813184-06	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-2	1813184-06	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1813184-06	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-2	1813184-06	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-2	1813184-06	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1813184-06	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-22-2	1813184-06	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-2	1813184-06	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-2	1813184-06	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-2	1813184-06	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-3	1813184-04	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1813184-04	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1813184-04	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1813184-04	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L



SDG: 1813184

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-22-3	1813184-04	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1813184-04	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1813184-04	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1813184-04	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1813184-04	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1813184-04	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1813184-04	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1813184-04	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1813184-04	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1813184-04	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1813184-04	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1813184-04	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1813184-04	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1813184-04	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-3	1813184-04	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1813184-04	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1813184-04	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1813184-04	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1813184-04	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1813184-04	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1813184-04	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1813184-04	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1813184-04	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1813184-04	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1813184-04	1,1-Dichloropropene	4/28/2018	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-22-3	1813184-04	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1813184-04	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1813184-04	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1813184-04	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-22-3	1813184-04	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1813184-04	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1813184-04	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1813184-04	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1813184-04	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1813184-04	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1813184-04	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1813184-04	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-3	1813184-04	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-3	1813184-04	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1813184-04	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-22-3	1813184-04	Carbon disulfide	4/28/2018	0.5	Y	y	v j		1.0	0.48	ug/L
MW-22-3	1813184-04	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-3	1813184-04	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-3	1813184-04	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-3	1813184-04	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-3	1813184-04	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-3	1813184-04	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1813184-04	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-3	1813184-04	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-22-3	1813184-04	Propionitrile	4/28/2018	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-22-3	1813184-04	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-22-3	1813184-04	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L	
MW-22-3	1813184-04	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L	
MW-22-3	1813184-04	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
MW-22-3	1813184-04	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L	
MW-22-3	1813184-04	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L	
MW-22-3	1813184-04	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-22-3	1813184-04	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-22-3	1813184-04	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-22-3	1813184-04	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-22-3	1813184-04	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L	
MW-22-3	1813184-04	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-22-3	1813184-04	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-22-3	1813184-04	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-22-3	1813184-04	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-22-3	1813184-04	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L	
MW-22-3	1813184-04	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L	
MW-22-3	1813184-04	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-22-3	1813184-04	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L	
MW-22-3	1813184-04	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-22-3	1813184-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-22-3	1813184-04	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L	
MW-22-3	1813184-04	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-22-3	1813184-04	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L	
MW-22-3	1813184-04	Bromochloromethane	4/28/2018	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
MW-22-3	1813184-04	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1813184-04	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1813184-03	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1813184-03	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1813184-03	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1813184-03	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-4	1813184-03	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-4	1813184-03	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-4	1813184-03	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1813184-03	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-4	1813184-03	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1813184-03	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1813184-03	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1813184-03	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-4	1813184-03	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-4	1813184-03	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1813184-03	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-4	1813184-03	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-4	1813184-03	o-Xylene	4/28/2018	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
MW-22-4	1813184-03	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-4	1813184-03	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-22-4	1813184-03	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-22-4	1813184-03	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-4	1813184-03	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-4	1813184-03	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-22-4	1813184-03	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-4	1813184-03	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-22-4	1813184-03	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-22-4	1813184-03	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-4	1813184-03	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-4	1813184-03	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-4	1813184-03	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-4	1813184-03	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-4	1813184-03	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-4	1813184-03	Carbon disulfide	4/28/2018	0.63	Y	y	v j		1.0	0.48	ug/L
MW-22-4	1813184-03	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-22-4	1813184-03	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1813184-03	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-4	1813184-03	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-4	1813184-03	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-22-4	1813184-03	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1813184-03	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1813184-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	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-22-4	1813184-03	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-22-4	1813184-03	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1813184-03	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1813184-03	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1813184-03	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1813184-03	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1813184-03	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1813184-03	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-4	1813184-03	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-4	1813184-03	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1813184-03	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1813184-03	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-4	1813184-03	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1813184-03	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1813184-03	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1813184-03	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-4	1813184-03	1,3-Dichlorobenzene	4/28/2018	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
MW-22-4	1813184-03	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-4	1813184-03	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-4	1813184-03	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-4	1813184-03	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-4	1813184-03	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-4	1813184-03	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-4	1813184-03	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1813184-03	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-5	1813184-02	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1813184-02	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-5	1813184-02	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1813184-02	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-5	1813184-02	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1813184-02	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-5	1813184-02	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1813184-02	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-5	1813184-02	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1813184-02	Styrene	4/28/2018	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-22-5	1813184-02	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-5	1813184-02	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1813184-02	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-5	1813184-02	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-5	1813184-02	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-22-5	1813184-02	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-22-5	1813184-02	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-5	1813184-02	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-5	1813184-02	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-22-5	1813184-02	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-5	1813184-02	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-22-5	1813184-02	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-22-5	1813184-02	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-22-5	1813184-02	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-5	1813184-02	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-5	1813184-02	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-5	1813184-02	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-5	1813184-02	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-5	1813184-02	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-5	1813184-02	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-22-5	1813184-02	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1813184-02	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1813184-02	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-22-5	1813184-02	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-5	1813184-02	Naphthalene	4/28/2018	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
MW-22-5	1813184-02	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-5	1813184-02	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-5	1813184-02	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-5	1813184-02	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-5	1813184-02	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-5	1813184-02	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-5	1813184-02	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-5	1813184-02	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-5	1813184-02	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-5	1813184-02	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-5	1813184-02	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-5	1813184-02	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1813184-02	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-5	1813184-02	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	trans-1,3-Dichloropropene	4/28/2018	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
MW-22-5	1813184-02	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-5	1813184-02	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1813184-02	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-5	1813184-02	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-5	1813184-02	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1813184-02	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1813184-02	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-5	1813184-02	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1813184-02	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-5	1813184-02	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1813184-10	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1813184-10	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-1	1813184-10	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-1	1813184-10	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-1	1813184-10	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1813184-10	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1813184-10	Tetrachloroethene	4/28/2018	1.2	Y	y	v		0.50	0.23	ug/L
MW-26-1	1813184-10	Toluene	4/28/2018	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-26-1	1813184-10	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1813184-10	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1813184-10	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-1	1813184-10	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1813184-10	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1813184-10	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1813184-10	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-1	1813184-10	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1813184-10	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1813184-10	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1813184-10	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1813184-10	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1813184-10	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-26-1	1813184-10	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1813184-10	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1813184-10	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1813184-10	n-Butylbenzene	4/28/2018	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-26-1	1813184-10	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1813184-10	Chloroform	4/28/2018	0.54	Y	y	v		0.50	0.14	ug/L
MW-26-1	1813184-10	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-26-1	1813184-10	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1813184-10	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-26-1	1813184-10	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-26-1	1813184-10	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-26-1	1813184-10	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-26-1	1813184-10	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-26-1	1813184-10	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1813184-10	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-26-1	1813184-10	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-26-1	1813184-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1813184-10	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1813184-10	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-26-1	1813184-10	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-26-1	1813184-10	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1813184-10	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-26-1	1813184-10	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-26-1	1813184-10	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-26-1	1813184-10	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-26-1	1813184-10	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-26-1	1813184-10	Trichloroethene	4/28/2018	0.47	Y	y	v j		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-26-1	1813184-10	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1813184-10	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1813184-10	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-1	1813184-10	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-26-1	1813184-10	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1813184-10	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1813184-10	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-26-1	1813184-10	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-26-1	1813184-10	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-26-1	1813184-10	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1813184-10	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-1	1813184-10	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1813184-10	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1813184-10	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1813184-10	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-26-1	1813184-10	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-26-1	1813184-10	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-26-1	1813184-10	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-26-1	1813184-10	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-1	1813184-10	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-26-2	1813184-09	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1813184-09	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-26-2	1813184-09	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-26-2	1813184-09	Methacrylonitrile	4/28/2018	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-26-2	1813184-09	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-2	1813184-09	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-26-2	1813184-09	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-2	1813184-09	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-2	1813184-09	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-26-2	1813184-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1813184-09	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-26-2	1813184-09	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-2	1813184-09	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	Trichloroethene	4/28/2018	0.25	Y	y	v j		0.50	0.19	ug/L
MW-26-2	1813184-09	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1813184-09	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1813184-09	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1813184-09	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1813184-09	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1813184-09	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1813184-09	Chloroform	4/28/2018	1.9	Y	y	v		0.50	0.14	ug/L
MW-26-2	1813184-09	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-26-2	1813184-09	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	1,2-Dichloroethane	4/28/2018	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-26-2	1813184-09	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1813184-09	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1813184-09	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1813184-09	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1813184-09	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-26-2	1813184-09	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-26-2	1813184-09	cis-1,2-Dichloroethene	4/28/2018	0.34	Y	y	v j		0.50	0.27	ug/L
MW-26-2	1813184-09	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-2	1813184-09	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-26-2	1813184-09	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-26-2	1813184-09	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-26-2	1813184-09	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1813184-09	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-26-2	1813184-09	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1813184-09	Tetrachloroethene	4/28/2018	2.3	Y	y	v		0.50	0.23	ug/L
MW-26-2	1813184-09	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1813184-09	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-26-2	1813184-09	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-2	1813184-09	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-26-2	1813184-09	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-2	1813184-09	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1813184-09	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1813184

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-26-2	1813184-09	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-2	1813184-09	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1813184-09	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1813184-09	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-26-2	1813184-09	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1813184-09	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-2	1813184-09	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1813184-09	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1813184-09	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1813184-09	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1813184-09	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-26-2	1813184-09	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-26-2	1813184-09	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-26-2	1813184-09	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-26-2	1813184-09	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1813184-09	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-26-2	1813184-09	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-26-2	1813184-09	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-26-2	1813184-09	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-2	1813184-09	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-26-2	1813184-09	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1813184-09	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1813184-09	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L



SDG: 1813184

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-26-2	1813184-09	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
TB-5-042418	1813184-01	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-5-042418	1813184-01	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-5-042418	1813184-01	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-042418	1813184-01	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-042418	1813184-01	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-042418	1813184-01	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-042418	1813184-01	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-042418	1813184-01	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-042418	1813184-01	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-042418	1813184-01	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-042418	1813184-01	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
TB-5-042418	1813184-01	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-042418	1813184-01	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-042418	1813184-01	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-042418	1813184-01	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-042418	1813184-01	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-042418	1813184-01	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-5-042418	1813184-01	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-042418	1813184-01	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1813184

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-5-042418	1813184-01	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-042418	1813184-01	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-042418	1813184-01	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-5-042418	1813184-01	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-042418	1813184-01	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-5-042418	1813184-01	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-042418	1813184-01	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
TB-5-042418	1813184-01	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-042418	1813184-01	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-5-042418	1813184-01	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-042418	1813184-01	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-042418	1813184-01	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-5-042418	1813184-01	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
TB-5-042418	1813184-01	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
TB-5-042418	1813184-01	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
TB-5-042418	1813184-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-042418	1813184-01	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-042418	1813184-01	Acetone	4/28/2018	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
TB-5-042418	1813184-01	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
TB-5-042418	1813184-01	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
TB-5-042418	1813184-01	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-042418	1813184-01	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
TB-5-042418	1813184-01	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-042418	1813184-01	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
TB-5-042418	1813184-01	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-042418	1813184-01	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
TB-5-042418	1813184-01	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-5-042418	1813184-01	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-042418	1813184-01	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
TB-5-042418	1813184-01	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-5-042418	1813184-01	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
TB-5-042418	1813184-01	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
TB-5-042418	1813184-01	Pentachloroethane	4/28/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-5-042418	1813184-01	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
TB-5-042418	1813184-01	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
TB-5-042418	1813184-01	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-5-042418	1813184-01	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-042418	1813184-01	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
TB-5-042418	1813184-01	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-042418	1813184-01	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-5-042418	1813184-01	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-5-042418	1813184-01	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-5-042418	1813184-01	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L

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<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
TB-5-042418	1813184-01	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-5-042418	1813184-01	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-042418	1813184-01	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-042418	1813184-01	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-042418	1813184-01	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-3-2Q18	1813184-05	Hexavalent Chromium	4/24/2018	0.0016	Y	y	v j		0.0020	0.0007	mg/L
DUP-4-2Q18	1813184-11	Hexavalent Chromium	4/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-5-042418	1813184-07	Hexavalent Chromium	4/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-22-1	1813184-08	Hexavalent Chromium	4/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-22-2	1813184-06	Hexavalent Chromium	4/24/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
MW-22-3	1813184-04	Hexavalent Chromium	4/24/2018	0.002	Y	y	v		0.0020	0.0007	mg/L
MW-22-4	1813184-03	Hexavalent Chromium	4/24/2018	0.0026	Y	y	v		0.0020	0.0007	mg/L
MW-22-5	1813184-02	Hexavalent Chromium	4/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-26-1	1813184-10	Hexavalent Chromium	4/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-26-2	1813184-09	Hexavalent Chromium	4/24/2018	0.002	Y	y	v		0.0020	0.0007	mg/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-3-2Q18	1813184-05	Carbonate	5/2/2018	2.7	Y	y	v		2.5	2.5	mg/L
DUP-3-2Q18	1813184-05	Total Alkalinity as CaCO3	5/2/2018	140	Y	y	v		4.1	4.1	mg/L
DUP-3-2Q18	1813184-05	Bicarbonate	5/2/2018	160	Y	y	v		5.0	5.0	mg/L

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Analytical Method SM-2320B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-4-2Q18	1813184-11	Total Alkalinity as CaCO3	5/3/2018	250	Y	y	v		4.1	4.1	mg/L
DUP-4-2Q18	1813184-11	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
DUP-4-2Q18	1813184-11	Bicarbonate	5/3/2018	300	Y	y	v		5.0	5.0	mg/L
EB-5-042418	1813184-07	Bicarbonate	5/3/2018	5	Y	n	u		5.0	5.0	mg/L
EB-5-042418	1813184-07	Total Alkalinity as CaCO3	5/3/2018	4.1	Y	n	u		4.1	4.1	mg/L
EB-5-042418	1813184-07	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-22-1	1813184-08	Total Alkalinity as CaCO3	5/3/2018	250	Y	y	v		8.2	8.2	mg/L
MW-22-1	1813184-08	Carbonate	5/3/2018	5	Y	n	u		5.0	5.0	mg/L
MW-22-1	1813184-08	Bicarbonate	5/3/2018	300	Y	y	v		10	10	mg/L
MW-22-2	1813184-06	Total Alkalinity as CaCO3	5/2/2018	180	Y	y	v		4.1	4.1	mg/L
MW-22-2	1813184-06	Bicarbonate	5/2/2018	220	Y	y	v		5.0	5.0	mg/L
MW-22-2	1813184-06	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-22-3	1813184-04	Bicarbonate	5/2/2018	170	Y	y	v		5.0	5.0	mg/L
MW-22-3	1813184-04	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-22-3	1813184-04	Total Alkalinity as CaCO3	5/2/2018	140	Y	y	v		4.1	4.1	mg/L
MW-22-4	1813184-03	Bicarbonate	5/2/2018	180	Y	y	v		5.0	5.0	mg/L
MW-22-4	1813184-03	Carbonate	5/2/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-22-4	1813184-03	Total Alkalinity as CaCO3	5/2/2018	150	Y	y	v		4.1	4.1	mg/L
MW-22-5	1813184-02	Bicarbonate	5/2/2018	57	Y	y	v		5.0	5.0	mg/L
MW-22-5	1813184-02	Carbonate	5/2/2018	30	Y	y	v		2.5	2.5	mg/L
MW-22-5	1813184-02	Total Alkalinity as CaCO3	5/2/2018	97	Y	y	v		4.1	4.1	mg/L
MW-26-1	1813184-10	Bicarbonate	5/3/2018	300	Y	y	v		5.0	5.0	mg/L
MW-26-1	1813184-10	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-26-1	1813184-10	Total Alkalinity as CaCO3	5/3/2018	250	Y	y	v		4.1	4.1	mg/L
MW-26-2	1813184-09	Total Alkalinity as CaCO3	5/3/2018	160	Y	y	v		4.1	4.1	mg/L

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<b>Analytical Method</b>											
SM-2320B											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-26-2	1813184-09	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-26-2	1813184-09	Bicarbonate	5/3/2018	200	Y	y	v		5.0	5.0	mg/L

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** Volatiles

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813498

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-7-042618	1813498-01	Water	04/26/18
MW-18-5	1813498-02	Water	04/26/18
MW-18-4	1813498-03	Water	04/26/18
MW-18-3	1813498-04	Water	04/26/18
MW-18-2	1813498-05	Water	04/26/18
EB-7-042618	1813498-06	Water	04/26/18
MW-11-3	1813498-07	Water	04/26/18
DUP-6-2Q18	1813498-08	Water	04/26/18
MW-11-2	1813498-09	Water	04/26/18
MW-11-1	1813498-10	Water	04/26/18
MW-6	1813498-11	Water	04/26/18
MW-5	1813498-12	Water	04/26/18
MW-13	1813498-13	Water	04/26/18
MW-8	1813498-14	Water	04/26/18
MW-15	1813498-15	Water	04/26/18
MW-7	1813498-16	Water	04/26/18
MW-12-5	1813498-17	Water	04/26/18
MW-12-4	1813498-18	Water	04/26/18
MW-6MS	1813498-11MS	Water	04/26/18
MW-6MSD	1813498-11MSD	Water	04/26/18
MW-8MS	1813498-14MS	Water	04/26/18
MW-8MSD	1813498-14MSD	Water	04/26/18

## 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
04/29/18 (29APR02)	Bromomethane	68.8	TB-7-042618 MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6 MW-5 MW-13 MW-15 MW-7 MW-12-5 MW-12-4	UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
04/29/18 (29APR03)	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	43.0 50.1 74.4	TB-7-042618 MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6 MW-5 MW-13 MW-15 MW-7 MW-12-5 MW-12-4	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P
04/29/18 (29APR32)	Bromomethane	64.1	MW-8	UJ (all non-detects)	P
04/29/18 (29APR33)	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	34.1 59.1 47.2	MW-8	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

## 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-7-042618 was identified as a trip blank. No contaminants were found.

Sample EB-7-042618 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-11-3 and DUP-6-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-11-3	DUP-6-2Q18	
Carbon tetrachloride	0.20	0.17U	16
Chloroform	0.21	0.15	33

## 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 eighteen 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 1813498**

Sample	Compound	Flag	A or P	Reason
TB-7-042618	Bromomethane	UJ (all non-detects)	P	Continuing calibration (%D)
MW-18-5	trans-1,4-Dichloro-2-butene	UJ (all non-detects)		
MW-18-4	Methyl iodide	UJ (all non-detects)		
MW-18-3	Pentachloroethane	UJ (all non-detects)		
MW-18-2				
EB-7-042618				
MW-11-3				
DUP-6-2Q18				
MW-11-2				
MW-11-1				
MW-6				
MW-5				
MW-13				
MW-15				
MW-7				
MW-12-5				
MW-12-4				
MW-8				

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 1813498**

No Sample Data Qualified in this SDG

**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	RPD ≤ 20% $\gamma^2$ ICV ≤ 30%
IV.	Continuing calibration	M	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	M	D = T + 8
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-7-042618	1813498-01	Water	04/26/18
2	MW-18-5	1813498-02	Water	04/26/18
3	MW-18-4	1813498-03	Water	04/26/18
4	MW-18-3	1813498-04	Water	04/26/18
5	MW-18-2	1813498-05	Water	04/26/18
6	EB-7-042618	1813498-06	Water	04/26/18
7	MW-11-3	1813498-07	Water	04/26/18
8	DUP-6-2Q18	1813498-08	Water	04/26/18
9	MW-11-2	1813498-09	Water	04/26/18
10	MW-11-1	1813498-10	Water	04/26/18
11	MW-6	1813498-11	Water	04/26/18
12	MW-5	1813498-12	Water	04/26/18
13	MW-13	1813498-13	Water	04/26/18

LDC #: 42411C1

# VALIDATION COMPLETENESS WORKSHEET

SDG #: 1813498

Level III

Laboratory: BC Laboratories, Inc.

Date: 6/5/18

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: KR

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-8	1813498-14	Water	04/26/18
15	MW-15	1813498-15	Water	04/26/18
16	MW-7	1813498-16	Water	04/26/18
17	MW-12-5	1813498-17	Water	04/26/18
18	MW-12-4	1813498-18	Water	04/26/18
19	MW-6MS	1813498-11MS	Water	04/26/18
20	MW-6MSD	1813498-11MSD	Water	04/26/18
21	MW-8MS	1813498-14MS	Water	04/26/18
22	MW-8MSD	1813498-14MSD	Water	04/26/18
23				
24				
25				

Notes:


## 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	WWWW. 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.

## 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".

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

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

#	Date	Standard ID	Compound	Finding %D (Limit: <30.0%)	Associated Samples	Qualifications
	<u>4/29/18</u>	<u>29APR02</u>	<u>B</u>	<u>68.8</u>	<u>1-13.15-20.MB</u>	<u>✓/U/P</u>
		<u>↓ 03</u>	<u>XXXX</u>	<u>43.0</u>		
			<u>Methyl iodide</u>	<u>50.1</u>		
			<u>2222</u>	<u>74.4</u>		<u>↓</u>
	<u>4/29/18</u>	<u>29APR32</u>	<u>B</u>	<u>64.1</u>	<u>14.21-22.MB</u>	<u>✓/U/P</u>
		<u>↓ 33</u>	<u>XXXX</u>	<u>34.1</u>		
			<u>Methyl iodide</u>	<u>59.1</u>		
			<u>2222</u>	<u>47.2</u>		<u>↓</u>



LDC#: 4241C1

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

Page: 1 of 1  
Reviewer: 9  
2nd Reviewer: KK

**METHOD:** GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	7	8	
O	0.20	0.17U	16
K	0.21	0.15	33

V:\FIELD DUPLICATES\Field Duplicates\FD\_Organics\2018\42411C1\_JPL.wpd

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** 1,4-Dioxane

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813498

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
MW-13	1813498-13	Water	04/26/18

## 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:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270D

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 not 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**

A decafluorotriphenylphosphine (DFTPP) tune was performed 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 15.0%.

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 20.0%.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

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

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## **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**

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.

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, 2Q2018**

**1,4-Dioxane - Data Qualification Summary - SDG 1813498**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**

**1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 1813498**

No Sample Data Qualified in this SDG

LDC #: 42411C2c

### VALIDATION COMPLETENESS WORKSHEET

Date: 6/15/18

SDG #: 1813498

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS 1,4-Dioxane (EPA SW846 Method 8270D)

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	RSO ≤ 15% . Y <sup>2</sup> 1CV ≤ 20%
IV.	Continuing calibration	A	CCV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LES
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

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-13	1813498-13	Water	04/26/18
2				
3				
4				
5				
6				
7				
8				

Notes:


## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 29, 2018

**Parameters:** Metals

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813498

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-18-5	1813498-02	Water	04/26/18
MW-18-4	1813498-03	Water	04/26/18
MW-18-3	1813498-04	Water	04/26/18
MW-18-2	1813498-05	Water	04/26/18
EB-7-042618	1813498-06	Water	04/26/18
MW-11-3	1813498-07	Water	04/26/18
DUP-6-2Q18	1813498-08	Water	04/26/18
MW-11-2	1813498-09	Water	04/26/18
MW-11-1	1813498-10	Water	04/26/18
MW-6	1813498-11	Water	04/26/18
MW-5	1813498-12	Water	04/26/18
MW-13	1813498-13	Water	04/26/18
MW-8	1813498-14	Water	04/26/18
MW-15	1813498-15	Water	04/26/18
MW-7	1813498-16	Water	04/26/18
MW-12-5	1813498-17	Water	04/26/18
MW-12-4	1813498-18	Water	04/26/18
MW-6MS	1813498-11MS	Water	04/26/18
MW-6MSD	1813498-11MSD	Water	04/26/18
MW-6DUP	1813498-11DUP	Water	04/26/18
MW-8MS	1813498-14MS	Water	04/26/18
MW-8MSD	1813498-14MSD	Water	04/26/18
MW-8DUP	1813498-14DUP	Water	04/26/18



## 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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

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 methods.

## 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)	Arsenic	1.0470 ug/L	MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6
ICB/CCB	Arsenic	0.80200 ug/L	MW-6
ICB/CCB	Calcium Magnesium Sodium	0.026747 mg/L 0.025235 mg/L 0.0639 mg/L	MW-18-5 MW-6
ICB/CCB	Calcium Magnesium	0.019358 mg/L 0.022748 mg/L	MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2

Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Magnesium	0.025902 mg/L	MW-8
ICB/CCB	Magnesium	0.029781 mg/L	MW-13 MW-15 MW-7 MW-12-5 MW-12-4
ICB/CCB	Potassium	0.15840 mg/L	MW-18-4 MW-11-1 MW-5
ICB/CCB	Calcium	0.014495 mg/L	MW-18-4
ICB/CCB	Calcium	0.016107 mg/L	MW-11-1 MW-5

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-18-4	Arsenic	0.91 ug/L	0.91U ug/L
MW-18-3	Arsenic	1.2 ug/L	1.2U ug/L
MW-18-2	Arsenic	1.2 ug/L	1.2U ug/L
DUP-6-2Q18	Arsenic	1.2 ug/L	1.2U ug/L
MW-11-2	Arsenic	0.79 ug/L	0.79U ug/L
MW-11-1	Arsenic	1.1 ug/L	1.1U ug/L
EB-7-042618	Calcium	0.020 mg/L	0.020U mg/L

## VI. Field Blanks

Sample EB-7-042618 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-7-042618	Calcium Sodium	0.020 0.078

## 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 with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
MW-6DUP (MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6)	Iron	47.2 (≤20)	-	J (all detects) UJ (all non-detects)	A

## 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 methods. Percent recoveries (%R) were within QC limits.

## XI. Field Duplicates

Samples MW-11-3 and DUP-6-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-11-3	DUP-6-2Q18	
Iron	420 ug/L	75 ug/L	139
Arsenic	0.70U ug/L	1.2 ug/L	53
Chromium	1.9 ug/L	0.79 ug/L	83
Lead	0.14 ug/L	0.10U ug/L	33
Calcium	42 mg/L	41 mg/L	2
Magnesium	14 mg/L	13 mg/L	7
Sodium	26 mg/L	25 mg/L	4
Potassium	2.1 mg/L	2.0 mg/L	5

## 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 methods. No results were rejected in this SDG.

Due to DUP RPD, data were qualified as estimated in ten samples.

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. 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, 2Q2018  
Metals - Data Qualification Summary - SDG 1813498**

Sample	Analyte	Flag	A or P	Reason
MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6	Iron	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)

**NASA JPL, 2Q2018  
Metals - Laboratory Blank Data Qualification Summary - SDG 1813498**

Sample	Analyte	Modified Final Concentration	A or P
MW-18-4	Arsenic	0.91U ug/L	A
MW-18-3	Arsenic	1.2U ug/L	A
MW-18-2	Arsenic	1.2U ug/L	A
DUP-6-2Q18	Arsenic	1.2U ug/L	A
MW-11-2	Arsenic	0.79U ug/L	A
MW-11-1	Arsenic	1.1U ug/L	A
EB-7-042618	Calcium	0.020U mg/L	A

LDC #: 42411C4a

## VALIDATION COMPLETENESS WORKSHEET

Date: 6/26/18

SDG #: 1813498

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: YB

2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

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	
V.	Laboratory Blanks	SW	EB
VI.	Field Blanks	SW	EB=5
VII.	Matrix Spike/Matrix Spike Duplicates	A	(18,19) - Ca > 4x (21,22)
VIII.	Duplicate sample analysis	SW	20, 23
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(6,7)
XII.	Internal Standard (ICP-MS)	N	Not Reviewed 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-18-5	1813498-02	Water	04/26/18
2	MW-18-4	1813498-03	Water	04/26/18
3	MW-18-3	1813498-04	Water	04/26/18
4	MW-18-2	1813498-05	Water	04/26/18
5	EB-7-042618	1813498-06	Water	04/26/18
6	MW-11-3	1813498-07	Water	04/26/18
7	DUP-6-2Q18	1813498-08	Water	04/26/18
8	MW-11-2	1813498-09	Water	04/26/18
9	MW-11-1	1813498-10	Water	04/26/18
10	MW-6	1813498-11	Water	04/26/18
11	MW-5	1813498-12	Water	04/26/18
12	MW-13	1813498-13	Water	04/26/18
13	MW-8	1813498-14	Water	04/26/18
14	MW-15	1813498-15	Water	04/26/18
15	MW-7	1813498-16	Water	04/26/18

LDC #: 42411C4a

### VALIDATION COMPLETENESS WORKSHEET

Date: 6/26/18

SDG #: 1813498

Level III

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** Metals (EPA Method 200.7/200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-12-5	1813498-17	Water	04/26/18
17	MW-12-4	1813498-18	Water	04/26/18
18	MW-6MS	1813498-11MS	Water	04/26/18
19	MW-6MSD	1813498-11MSD	Water	04/26/18
20	MW-6DUP	1813498-11DUP	Water	04/26/18
21	MW-8MS	1813498-14MS	Water	04/26/18
22	MW-8MSD	1813498-14MSD	Water	04/26/18
23	MW-8DUP	1813498-14DUP	Water	04/26/18
24				
25				
26				

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 <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level	2	3	4 5	7	8	9			
As	1.0470		5.235	0.91	1.2	1.2	1.2	0.79	1.1			

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 10

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Level									
As		0.80200	4.01									

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 1, 10

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level									
Ca		0.026747	0.13374									
Mg		0.025235	0.12618									
Na		0.0639	0.31949									

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 3 - 8

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level	5								
Ca		0.019358	0.0968	0.020								
Mg		0.022748	0.11374									

**VALIDATION FINDINGS WORKSHEET  
PB/ICB/CCB QUALIFIED SAMPLES**

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 13

Analyte	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
Mg		0.025902	0.12951									

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 12, 14 - 17

Analyte	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
Mg		0.029781	0.14891									

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 2, 9, 11

Analyte	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
K		0.15840	0.792									

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 2

Analyte	Maximum PB <sup>a</sup> (mg/l)	Maximum ICB/CCB <sup>a</sup> (mg/l)	Action Level									
Ca		0.014495	0.0725									

**VALIDATION FINDINGS WORKSHEET**  
**PB/ICB/CCB QUALIFIED SAMPLES**

2nd Reviewer: KK

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 9, 11

Analyte	Maximum PB <sup>a</sup> (mg/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level									
Ca		0.016107	0.0805									

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 #: 42411C4a  
SDG #: 1813498

### VALIDATION FINDINGS WORKSHEET

#### Field Blanks

Page: 1 of 1  
Reviewer: VB  
2nd reviewer: KK

**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:** 5 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units ( )
Ca	0.020 mg/L
Na	0.078 mg/L

**Sample:** \_\_\_\_\_ Field Blank / Trip Blank / Rinsate / Other \_\_\_\_\_ (circle one)

Analyte	Concentration Units ( )

## VALIDATION FINDINGS WORKSHEET Duplicate Analysis

**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".

N N/A Was a duplicate sample analyzed for each matrix in this SDG?

N N/A Were all duplicate sample relative percent differences (RPD)  $\leq$  20% for water samples and  $\leq$  35% for soil samples? If no, see qualifications below. A control limit of  $\pm$ R.L. ( $\pm$ 2X R.L. for soil) was used for sample values that were  $<$ 5X the R.L., including the case when only one of the duplicate sample values was  $<$ 5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

**LEVEL IV ONLY:**

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

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		20	W	Fe	47.2 (20)		1-10	J1111A (Det) (NI)

Comments: \_\_\_\_\_

\_\_\_\_\_

LDC#: 42411C4a

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

Page: 1 of 1  
Reviewer: PK  
2nd Reviewer: PK

**METHOD:** Metals (EPA Method 200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	6	7		
Iron	420	75	139	
Arsenic	0.70U	1.2	53	
Chromium	1.9	0.79	83	
Lead	0.14	0.10U	33	
Calcium (mg/L)	42	41	2	
Magnesium (mg/L)	14	13	7	
Sodium (mg/L)	26	25	4	
Potassium (mg/L)	2.1	2.0	5	

V:\FIELD DUPLICATES\Field Duplicates\FD\_inorganic\2018\42411BC4a.wpd

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 26, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813498

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-18-5	1813498-02	Water	04/26/18
MW-18-4	1813498-03	Water	04/26/18
MW-18-3	1813498-04	Water	04/26/18
MW-18-2	1813498-05	Water	04/26/18
EB-7-042618	1813498-06	Water	04/26/18
MW-11-3	1813498-07	Water	04/26/18
DUP-6-2Q18	1813498-08	Water	04/26/18
MW-11-2	1813498-09	Water	04/26/18
MW-11-1	1813498-10	Water	04/26/18
MW-6	1813498-11	Water	04/26/18
MW-5	1813498-12	Water	04/26/18
MW-13	1813498-13	Water	04/26/18
MW-8	1813498-14	Water	04/26/18
MW-15	1813498-15	Water	04/26/18
MW-7	1813498-16	Water	04/26/18
MW-12-5	1813498-17	Water	04/26/18
MW-12-4	1813498-18	Water	04/26/18
MW-18-5DUP	1813498-02DUP	Water	04/26/18
MW-6MS	1813498-11MS	Water	04/26/18
MW-6MSD	1813498-11MSD	Water	04/26/18
MW-6DUP	1813498-11DUP	Water	04/26/18
MW-8MS	1813498-14MS	Water	04/26/18
MW-8MSD	1813498-14MSD	Water	04/26/18
MW-8DUP	1813498-14DUP	Water	04/26/18



## 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:

Alkalinity by Standard Method 2320B

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

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6 MW-5 MW-13 MW-15 MW-7 MW-12-5 MW-12-4	pH	8 days	48 hours	J (all detects)	P
MW-8	pH	11 days	48 hours	J (all detects)	P
MW-6	Hexavalent chromium	24.18 hours	24 hours	J (all detects)	P

## 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-7-042618 was identified as an equipment blank. No contaminant concentrations were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-7-042618	Chloride	0.16

## 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-11-3 and DUP-6-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-11-3	DUP-6-2Q18	
Perchlorate	0.58U ug/L	0.81 ug/L	33
pH	8.10 SU	8.02 SU	1
Total dissolved solids	280 mg/L	280 mg/L	0
Chloride	11 mg/L	11 mg/L	0
Nitrate as N	0.14 mg/L	0.14 mg/L	0
Sulfate	23 mg/L	23 mg/L	0
Total alkalinity	170 mg/L	170 mg/L	0

Analyte	Concentration		RPD
	MW-11-3	DUP-6-2Q18	
Bicarbonate	210 mg/L	210 mg/L	0

### 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.

Due to technical holding time, data were qualified as estimated in seventeen 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, 2Q2018  
Wet Chemistry - Data Qualification Summary - SDG 1813498**

Sample	Analyte	Flag	A or P	Reason
MW-18-5 MW-18-4 MW-18-3 MW-18-2 EB-7-042618 MW-11-3 DUP-6-2Q18 MW-11-2 MW-11-1 MW-6 MW-5 MW-13 MW-15 MW-7 MW-12-5 MW-12-4 MW-8	pH	J (all detects)	P	Technical holding times
MW-6	Hexavalent chromium	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018  
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1813498**

No Sample Data Qualified in this SDG

LDC #: 42411C6  
 SDG #: 1813498  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**

Level III

Date: 6/26/18  
 Page: 1 of 2  
 Reviewer: JS  
 2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1) *last P*

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 SW	
II.	Initial calibration	A	
III.	Calibration verification	A	
IV.	Laboratory Blanks	A	
V.	Field blanks	SW	EB=5
VI.	Matrix Spike/Matrix Spike Duplicates	A	(19, 20) (22, 23)
VII.	Duplicate sample analysis	A	1B - AK ok by difference, 21 - CID ok by diff. , 24
VIII.	Laboratory control samples	A	LES
IX.	Field duplicates	SW	(6, 7)
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-18-5	1813498-02	Water	04/26/18
2	MW-18-4	1813498-03	Water	04/26/18
3	MW-18-3	1813498-04	Water	04/26/18
4	MW-18-2	1813498-05	Water	04/26/18
5	EB-7-042618	1813498-06	Water	04/26/18
6	MW-11-3	1813498-07	Water	04/26/18
7	DUP-6-2Q18	1813498-08	Water	04/26/18
8	MW-11-2	1813498-09	Water	04/26/18
9	MW-11-1	1813498-10	Water	04/26/18
10	MW-6	1813498-11	Water	04/26/18
11	MW-5	1813498-12	Water	04/26/18
12	MW-13	1813498-13	Water	04/26/18
13	MW-8	1813498-14	Water	04/26/18
14	MW-15	1813498-15	Water	04/26/18
15	MW-7	1813498-16	Water	04/26/18
16	MW-12-5	1813498-17	Water	04/26/18

LDC #: 42411C6  
SDG #: 1813498  
Laboratory: BC Laboratories, Inc.

### VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 6/26/19  
Page: 2 of 2  
Reviewer: LB  
2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

	Client ID	Lab ID	Matrix	Date
17	MW-12-4	1813498-18	Water	04/26/18
18	MW-18-5DUP	1813498-02DUP	Water	04/26/18
19	MW-6MS	1813498-11MS	Water	04/26/18
20	MW-6MSD	1813498-11MSD	Water	04/26/18
21	MW-6DUP	1813498-11DUP	Water	04/26/18
22	MW-8MS	1813498-14MS	Water	04/26/18
23	MW-8MSD	1813498-14MSD	Water	04/26/18
24	MW-8DUP	1813498-14DUP	Water	04/26/18
25				
26				
27				

Notes:



### VALIDATION FINDINGS WORKSHEET

#### Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-17	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
9, 12, 13, 15	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
Qc	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
18	pH <del>TDS</del> Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
19, 20	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
21	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
22, 23	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
24	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>

Comments: \_\_\_\_\_

### VALIDATION FINDINGS WORKSHEET Technical Holding Times

All circled dates have exceeded the technical holding time.  
 Y N N/A Were all samples preserved as applicable to each method?  
 Y N N/A Were all cooler temperatures within validation criteria?

Method:	EPA 150.1				EPA 7196		
Parameters:	pH				Cr6+		
Technical holding time:	48 hours.				24 hours.		
Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
1-12, 14-17	4/26/18	5/4/18	8 days	J/W/P (Det)			
13	4/26/18	5/7/18	11 days	↓			
10	4/26/18 8:08				4/27/18 8:19	24.18 hrs.	J/W/P (Det)

LDC #: 42411C6  
SDG #:

# VALIDATION FINDINGS WORKSHEET

## Field Blanks

Page: 1 of 1  
Reviewer: JS  
2nd reviewer: KK

METHOD: Inorganics

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

Sample: 5 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units ( )
Cl	0.16 mg/L

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

Analyte	Concentration Units ( )

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

**Inorganics:** Method See Cover

Analyte	Concentration (mg/L)		RPD	
	6	7		
Perchlorate (ug/L)	0.58U	0.81	33	
pH (pH Units)	8.10	8.02	1	
TDS	280	280	0	
Chloride	11	11	0	
Nitrate as N	0.14	0.14	0	
Sulfate	23	23	0	
Total Alkalinity	170	170	0	
Bicarbonate	210	210	0	

## NASA JPL, 2Q2018 - LDC# 42411C

SDG: 1813498

Analytical Method		EPA-150.1										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-6-2Q18	1813498-08	pH	5/4/2018	8.02	Y	y	v	J	0.05	0.05	pH Units	
EB-7-042618	1813498-06	pH	5/4/2018	4.57	Y	y	v	J	0.05	0.05	pH Units	
MW-11-1	1813498-10	pH	5/4/2018	7.98	Y	y	v	J	0.05	0.05	pH Units	
MW-11-2	1813498-09	pH	5/4/2018	8.18	Y	y	v	J	0.05	0.05	pH Units	
MW-11-3	1813498-07	pH	5/4/2018	8.1	Y	y	v	J	0.05	0.05	pH Units	
MW-12-4	1813498-18	pH	5/4/2018	8.18	Y	y	v	J	0.05	0.05	pH Units	
MW-12-5	1813498-17	pH	5/4/2018	8.15	Y	y	v	J	0.05	0.05	pH Units	
MW-13	1813498-13	pH	5/4/2018	7.55	Y	y	v	J	0.05	0.05	pH Units	
MW-15	1813498-15	pH	5/4/2018	7.68	Y	y	v	J	0.05	0.05	pH Units	
MW-18-2	1813498-05	pH	5/4/2018	7.89	Y	y	v	J	0.05	0.05	pH Units	
MW-18-3	1813498-04	pH	5/4/2018	7.95	Y	y	v	J	0.05	0.05	pH Units	
MW-18-4	1813498-03	pH	5/4/2018	8.13	Y	y	v	J	0.05	0.05	pH Units	
MW-18-5	1813498-02	pH	5/4/2018	8.6	Y	y	v	J	0.05	0.05	pH Units	
MW-5	1813498-12	pH	5/4/2018	7.36	Y	y	v	J	0.05	0.05	pH Units	
MW-6	1813498-11	pH	5/4/2018	7.47	Y	y	v	J	0.05	0.05	pH Units	
MW-7	1813498-16	pH	5/4/2018	7.71	Y	y	v	J	0.05	0.05	pH Units	
MW-8	1813498-14	pH	5/7/2018	7.42	Y	y	v	J	0.05	0.05	pH Units	

Analytical Method		EPA-160.1										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-6-2Q18	1813498-08	Total Dissolved Solids @ 180 C	5/1/2018	280	Y	y	v		20	20	mg/L	
EB-7-042618	1813498-06	Total Dissolved Solids @ 180 C	5/1/2018	6.7	Y	n	u		6.7	6.7	mg/L	
MW-11-1	1813498-10	Total Dissolved Solids @ 180 C	5/1/2018	400	Y	y	v		20	20	mg/L	
MW-11-2	1813498-09	Total Dissolved Solids @ 180 C	5/1/2018	290	Y	y	v		20	20	mg/L	

SDG: 1813498

<b>Analytical Method</b>		EPA-160.1									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-11-3	1813498-07	Total Dissolved Solids @ 180 C	5/1/2018	280	Y	y	v		20	20	mg/L
MW-12-4	1813498-18	Total Dissolved Solids @ 180 C	5/1/2018	340	Y	y	v		20	20	mg/L
MW-12-5	1813498-17	Total Dissolved Solids @ 180 C	5/1/2018	310	Y	y	v		20	20	mg/L
MW-13	1813498-13	Total Dissolved Solids @ 180 C	5/1/2018	470	Y	y	v		33	33	mg/L
MW-15	1813498-15	Total Dissolved Solids @ 180 C	5/1/2018	410	Y	y	v		20	20	mg/L
MW-18-2	1813498-05	Total Dissolved Solids @ 180 C	5/1/2018	350	Y	y	v		20	20	mg/L
MW-18-3	1813498-04	Total Dissolved Solids @ 180 C	5/1/2018	350	Y	y	v		20	20	mg/L
MW-18-4	1813498-03	Total Dissolved Solids @ 180 C	5/1/2018	300	Y	y	v		20	20	mg/L
MW-18-5	1813498-02	Total Dissolved Solids @ 180 C	5/1/2018	190	Y	y	v		10	10	mg/L
MW-5	1813498-12	Total Dissolved Solids @ 180 C	5/1/2018	260	Y	y	v		20	20	mg/L
MW-6	1813498-11	Total Dissolved Solids @ 180 C	5/1/2018	840	Y	y	v		50	50	mg/L
MW-7	1813498-16	Total Dissolved Solids @ 180 C	5/1/2018	480	Y	y	v		33	33	mg/L
MW-8	1813498-14	Total Dissolved Solids @ 180 C	5/1/2018	350	Y	y	v		20	20	mg/L

<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-6-2Q18	1813498-08	Total Recoverable Sodium	5/9/2018	25	Y	y	v		0.50	0.051	mg/L
DUP-6-2Q18	1813498-08	Total Recoverable Magnesium	5/9/2018	13	Y	y	v		0.050	0.019	mg/L
DUP-6-2Q18	1813498-08	Total Recoverable Iron	5/9/2018	75	Y	y	v	J	50	30	ug/L
DUP-6-2Q18	1813498-08	Total Recoverable Calcium	5/9/2018	41	Y	y	v		0.10	0.014	mg/L
DUP-6-2Q18	1813498-08	Total Recoverable Potassium	5/9/2018	2	Y	y	v		1.0	0.10	mg/L
EB-7-042618	1813498-06	Total Recoverable Calcium	5/9/2018	0.02	Y	y	v j	U	0.10	0.014	mg/L
EB-7-042618	1813498-06	Total Recoverable Potassium	5/9/2018	1	Y	n	u		1.0	0.10	mg/L
EB-7-042618	1813498-06	Total Recoverable Sodium	5/9/2018	0.078	Y	y	v j		0.50	0.051	mg/L
EB-7-042618	1813498-06	Total Recoverable Iron	5/9/2018	50	Y	n	u	UJ	50	30	ug/L

SDG: 1813498

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-042618	1813498-06	Total Recoverable Magnesium	5/9/2018	0.05	Y	n	u		0.050	0.019	mg/L
MW-11-1	1813498-10	Total Recoverable Iron	5/9/2018	130	Y	y	v	J	50	30	ug/L
MW-11-1	1813498-10	Total Recoverable Potassium	5/16/2018	3.6	Y	y	v		1.0	0.10	mg/L
MW-11-1	1813498-10	Total Recoverable Calcium	5/16/2018	67	Y	y	v		0.10	0.014	mg/L
MW-11-1	1813498-10	Total Recoverable Sodium	5/16/2018	28	Y	y	v		0.50	0.051	mg/L
MW-11-1	1813498-10	Total Recoverable Magnesium	5/16/2018	21	Y	y	v		0.050	0.019	mg/L
MW-11-2	1813498-09	Total Recoverable Potassium	5/9/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-11-2	1813498-09	Total Recoverable Iron	5/9/2018	300	Y	y	v	J	50	30	ug/L
MW-11-2	1813498-09	Total Recoverable Sodium	5/9/2018	25	Y	y	v		0.50	0.051	mg/L
MW-11-2	1813498-09	Total Recoverable Magnesium	5/9/2018	19	Y	y	v		0.050	0.019	mg/L
MW-11-2	1813498-09	Total Recoverable Calcium	5/9/2018	41	Y	y	v		0.10	0.014	mg/L
MW-11-3	1813498-07	Total Recoverable Magnesium	5/9/2018	14	Y	y	v		0.050	0.019	mg/L
MW-11-3	1813498-07	Total Recoverable Potassium	5/9/2018	2.1	Y	y	v		1.0	0.10	mg/L
MW-11-3	1813498-07	Total Recoverable Sodium	5/9/2018	26	Y	y	v		0.50	0.051	mg/L
MW-11-3	1813498-07	Total Recoverable Iron	5/9/2018	420	Y	y	v	J	50	30	ug/L
MW-11-3	1813498-07	Total Recoverable Calcium	5/9/2018	42	Y	y	v		0.10	0.014	mg/L
MW-12-4	1813498-18	Total Recoverable Calcium	5/10/2018	63	Y	y	v		0.10	0.014	mg/L
MW-12-4	1813498-18	Total Recoverable Magnesium	5/10/2018	15	Y	y	v		0.050	0.019	mg/L
MW-12-4	1813498-18	Total Recoverable Sodium	5/10/2018	24	Y	y	v		0.50	0.051	mg/L
MW-12-4	1813498-18	Total Recoverable Iron	5/10/2018	37	Y	y	v j		50	30	ug/L
MW-12-4	1813498-18	Total Recoverable Potassium	5/10/2018	2.3	Y	y	v		1.0	0.10	mg/L
MW-12-5	1813498-17	Total Recoverable Magnesium	5/10/2018	14	Y	y	v		0.050	0.019	mg/L
MW-12-5	1813498-17	Total Recoverable Calcium	5/10/2018	53	Y	y	v		0.10	0.014	mg/L
MW-12-5	1813498-17	Total Recoverable Iron	5/10/2018	490	Y	y	v		50	30	ug/L
MW-12-5	1813498-17	Total Recoverable Potassium	5/10/2018	2.4	Y	y	v		1.0	0.10	mg/L

SDG: 1813498

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-5	1813498-17	Total Recoverable Sodium	5/10/2018	33	Y	y	v		0.50	0.051	mg/L
MW-13	1813498-13	Total Recoverable Potassium	5/10/2018	3.7	Y	y	v		1.0	0.10	mg/L
MW-13	1813498-13	Total Recoverable Sodium	5/10/2018	38	Y	y	v		0.50	0.051	mg/L
MW-13	1813498-13	Total Recoverable Magnesium	5/10/2018	27	Y	y	v		0.050	0.019	mg/L
MW-13	1813498-13	Total Recoverable Calcium	5/10/2018	77	Y	y	v		0.10	0.014	mg/L
MW-13	1813498-13	Total Recoverable Iron	5/10/2018	2100	Y	y	v		50	30	ug/L
MW-15	1813498-15	Total Recoverable Calcium	5/10/2018	71	Y	y	v		0.10	0.014	mg/L
MW-15	1813498-15	Total Recoverable Iron	5/10/2018	31	Y	y	v j		50	30	ug/L
MW-15	1813498-15	Total Recoverable Sodium	5/10/2018	27	Y	y	v		0.50	0.051	mg/L
MW-15	1813498-15	Total Recoverable Potassium	5/10/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-15	1813498-15	Total Recoverable Magnesium	5/10/2018	23	Y	y	v		0.050	0.019	mg/L
MW-18-2	1813498-05	Total Recoverable Iron	5/9/2018	81	Y	y	v	J	50	30	ug/L
MW-18-2	1813498-05	Total Recoverable Sodium	5/9/2018	22	Y	y	v		0.50	0.051	mg/L
MW-18-2	1813498-05	Total Recoverable Calcium	5/9/2018	63	Y	y	v		0.10	0.014	mg/L
MW-18-2	1813498-05	Total Recoverable Magnesium	5/9/2018	21	Y	y	v		0.050	0.019	mg/L
MW-18-2	1813498-05	Total Recoverable Potassium	5/9/2018	2.8	Y	y	v		1.0	0.10	mg/L
MW-18-3	1813498-04	Total Recoverable Sodium	5/9/2018	24	Y	y	v		0.50	0.051	mg/L
MW-18-3	1813498-04	Total Recoverable Magnesium	5/9/2018	19	Y	y	v		0.050	0.019	mg/L
MW-18-3	1813498-04	Total Recoverable Calcium	5/9/2018	66	Y	y	v		0.10	0.014	mg/L
MW-18-3	1813498-04	Total Recoverable Iron	5/9/2018	78	Y	y	v	J	50	30	ug/L
MW-18-3	1813498-04	Total Recoverable Potassium	5/9/2018	3	Y	y	v		1.0	0.10	mg/L
MW-18-4	1813498-03	Total Recoverable Iron	5/9/2018	59	Y	y	v	J	50	30	ug/L
MW-18-4	1813498-03	Total Recoverable Magnesium	5/16/2018	12	Y	y	v		0.050	0.019	mg/L
MW-18-4	1813498-03	Total Recoverable Potassium	5/16/2018	1.8	Y	y	v		1.0	0.10	mg/L
MW-18-4	1813498-03	Total Recoverable Sodium	5/16/2018	28	Y	y	v		0.50	0.051	mg/L



SDG: 1813498

Analytical Method EPA-200.7

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1813498-03	Total Recoverable Calcium	5/16/2018	41	Y	y	v		0.10	0.014	mg/L
MW-18-5	1813498-02	Total Recoverable Potassium	5/9/2018	1.4	Y	y	v		1.0	0.10	mg/L
MW-18-5	1813498-02	Total Recoverable Sodium	5/9/2018	49	Y	y	v		0.50	0.051	mg/L
MW-18-5	1813498-02	Total Recoverable Calcium	5/9/2018	9.3	Y	y	v		0.10	0.014	mg/L
MW-18-5	1813498-02	Total Recoverable Magnesium	5/9/2018	3.8	Y	y	v		0.050	0.019	mg/L
MW-18-5	1813498-02	Total Recoverable Iron	5/9/2018	82	Y	y	v	J	50	30	ug/L
MW-5	1813498-12	Total Recoverable Iron	5/10/2018	50	Y	n	u		50	30	ug/L
MW-5	1813498-12	Total Recoverable Potassium	5/16/2018	3	Y	y	v		1.0	0.10	mg/L
MW-5	1813498-12	Total Recoverable Calcium	5/16/2018	41	Y	y	v		0.10	0.014	mg/L
MW-5	1813498-12	Total Recoverable Magnesium	5/16/2018	13	Y	y	v		0.050	0.019	mg/L
MW-5	1813498-12	Total Recoverable Sodium	5/16/2018	14	Y	y	v		0.50	0.051	mg/L
MW-6	1813498-11	Total Recoverable Calcium	5/9/2018	150	Y	y	v		0.10	0.014	mg/L
MW-6	1813498-11	Total Recoverable Iron	5/9/2018	250	Y	y	v	J	50	30	ug/L
MW-6	1813498-11	Total Recoverable Potassium	5/9/2018	2.6	Y	y	v		1.0	0.10	mg/L
MW-6	1813498-11	Total Recoverable Magnesium	5/9/2018	50	Y	y	v		0.050	0.019	mg/L
MW-6	1813498-11	Total Recoverable Sodium	5/9/2018	38	Y	y	v		0.50	0.051	mg/L
MW-7	1813498-16	Total Recoverable Calcium	5/10/2018	81	Y	y	v		0.10	0.014	mg/L
MW-7	1813498-16	Total Recoverable Sodium	5/10/2018	41	Y	y	v		0.50	0.051	mg/L
MW-7	1813498-16	Total Recoverable Potassium	5/10/2018	4.3	Y	y	v		1.0	0.10	mg/L
MW-7	1813498-16	Total Recoverable Iron	5/10/2018	640	Y	y	v		50	30	ug/L
MW-7	1813498-16	Total Recoverable Magnesium	5/10/2018	26	Y	y	v		0.050	0.019	mg/L
MW-8	1813498-14	Total Recoverable Iron	5/10/2018	37	Y	y	v j		50	30	ug/L
MW-8	1813498-14	Total Recoverable Sodium	5/10/2018	24	Y	y	v		0.50	0.051	mg/L
MW-8	1813498-14	Total Recoverable Potassium	5/10/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-8	1813498-14	Total Recoverable Magnesium	5/10/2018	21	Y	y	v		0.050	0.019	mg/L

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Analytical Method EPA-200.7											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-8	1813498-14	Total Recoverable Calcium	5/10/2018	65	Y	y	v		0.10	0.014	mg/L

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-6-2Q18	1813498-08	Total Recoverable Arsenic	5/3/2018	1.2	Y	y	v j	U	2.0	0.70	ug/L
DUP-6-2Q18	1813498-08	Total Recoverable Chromium	5/3/2018	0.79	Y	y	v j		3.0	0.50	ug/L
DUP-6-2Q18	1813498-08	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
EB-7-042618	1813498-06	Total Recoverable Chromium	5/3/2018	3	Y	n	u		3.0	0.50	ug/L
EB-7-042618	1813498-06	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
EB-7-042618	1813498-06	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-11-1	1813498-10	Total Recoverable Lead	5/3/2018	0.11	Y	y	v j		1.0	0.10	ug/L
MW-11-1	1813498-10	Total Recoverable Arsenic	5/3/2018	1.1	Y	y	v j	U	2.0	0.70	ug/L
MW-11-1	1813498-10	Total Recoverable Chromium	5/3/2018	0.91	Y	y	v j		3.0	0.50	ug/L
MW-11-2	1813498-09	Total Recoverable Chromium	5/3/2018	3	Y	n	u		3.0	0.50	ug/L
MW-11-2	1813498-09	Total Recoverable Arsenic	5/3/2018	0.79	Y	y	v j	U	2.0	0.70	ug/L
MW-11-2	1813498-09	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-11-3	1813498-07	Total Recoverable Lead	5/3/2018	0.14	Y	y	v j		1.0	0.10	ug/L
MW-11-3	1813498-07	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-11-3	1813498-07	Total Recoverable Chromium	5/3/2018	1.9	Y	y	v j		3.0	0.50	ug/L
MW-12-4	1813498-18	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-12-4	1813498-18	Total Recoverable Arsenic	5/3/2018	0.9	Y	y	v j		2.0	0.70	ug/L
MW-12-4	1813498-18	Total Recoverable Chromium	5/3/2018	0.72	Y	y	v j		3.0	0.50	ug/L
MW-12-5	1813498-17	Total Recoverable Chromium	5/3/2018	1.4	Y	y	v j		3.0	0.50	ug/L
MW-12-5	1813498-17	Total Recoverable Lead	5/3/2018	0.2	Y	y	v j		1.0	0.10	ug/L
MW-12-5	1813498-17	Total Recoverable Arsenic	5/3/2018	1.9	Y	y	v j		2.0	0.70	ug/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
MW-13	1813498-13	Total Recoverable Chromium	5/3/2018	170	Y	y	v		3.0	0.50	ug/L
MW-13	1813498-13	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-13	1813498-13	Total Recoverable Lead	5/3/2018	0.46	Y	y	v j		1.0	0.10	ug/L
MW-15	1813498-15	Total Recoverable Arsenic	5/3/2018	0.99	Y	y	v j		2.0	0.70	ug/L
MW-15	1813498-15	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-15	1813498-15	Total Recoverable Chromium	5/3/2018	2.8	Y	y	v j		3.0	0.50	ug/L
MW-18-2	1813498-05	Total Recoverable Chromium	5/3/2018	1.1	Y	y	v j		3.0	0.50	ug/L
MW-18-2	1813498-05	Total Recoverable Arsenic	5/3/2018	1.2	Y	y	v j	U	2.0	0.70	ug/L
MW-18-2	1813498-05	Total Recoverable Lead	5/3/2018	0.11	Y	y	v j		1.0	0.10	ug/L
MW-18-3	1813498-04	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-18-3	1813498-04	Total Recoverable Chromium	5/3/2018	2.6	Y	y	v j		3.0	0.50	ug/L
MW-18-3	1813498-04	Total Recoverable Arsenic	5/3/2018	1.2	Y	y	v j	U	2.0	0.70	ug/L
MW-18-4	1813498-03	Total Recoverable Chromium	5/3/2018	2.6	Y	y	v j		3.0	0.50	ug/L
MW-18-4	1813498-03	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-18-4	1813498-03	Total Recoverable Arsenic	5/3/2018	0.91	Y	y	v j	U	2.0	0.70	ug/L
MW-18-5	1813498-02	Total Recoverable Chromium	5/3/2018	3	Y	n	u		3.0	0.50	ug/L
MW-18-5	1813498-02	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-18-5	1813498-02	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-5	1813498-12	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-5	1813498-12	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-5	1813498-12	Total Recoverable Chromium	5/3/2018	0.69	Y	y	v j		3.0	0.50	ug/L
MW-6	1813498-11	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-6	1813498-11	Total Recoverable Chromium	5/3/2018	24	Y	y	v		3.0	0.50	ug/L
MW-6	1813498-11	Total Recoverable Arsenic	5/3/2018	2	Y	n	u		2.0	0.70	ug/L
MW-7	1813498-16	Total Recoverable Chromium	5/3/2018	54	Y	y	v		3.0	0.50	ug/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
MW-7	1813498-16	Total Recoverable Arsenic	5/3/2018	0.97	Y	y	v j		2.0	0.70	ug/L
MW-7	1813498-16	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	ug/L
MW-8	1813498-14	Total Recoverable Chromium	5/3/2018	4.6	Y	y	v		3.0	0.50	ug/L
MW-8	1813498-14	Total Recoverable Arsenic	5/3/2018	0.86	Y	y	v j		2.0	0.70	ug/L
MW-8	1813498-14	Total Recoverable Lead	5/3/2018	1	Y	n	u		1.0	0.10	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
DUP-6-2Q18	1813498-08	Chloride	4/27/2018	11	Y	y	v		0.50	0.077	mg/L
DUP-6-2Q18	1813498-08	Nitrate as N	4/27/2018	0.14	Y	y	v		0.10	0.021	mg/L
DUP-6-2Q18	1813498-08	Sulfate	4/27/2018	23	Y	y	v		1.0	0.13	mg/L
EB-7-042618	1813498-06	Chloride	4/27/2018	0.16	Y	y	v j		0.50	0.077	mg/L
EB-7-042618	1813498-06	Sulfate	4/27/2018	1	Y	n	u		1.0	0.13	mg/L
EB-7-042618	1813498-06	Nitrate as N	4/27/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-11-1	1813498-10	Nitrate as N	4/28/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-11-1	1813498-10	Chloride	4/28/2018	15	Y	y	v		0.50	0.077	mg/L
MW-11-1	1813498-10	Sulfate	4/28/2018	24	Y	y	v		1.0	0.13	mg/L
MW-11-2	1813498-09	Sulfate	4/27/2018	23	Y	y	v		1.0	0.13	mg/L
MW-11-2	1813498-09	Chloride	4/27/2018	15	Y	y	v		0.50	0.077	mg/L
MW-11-2	1813498-09	Nitrate as N	4/27/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-11-3	1813498-07	Chloride	4/27/2018	11	Y	y	v		0.50	0.077	mg/L
MW-11-3	1813498-07	Sulfate	4/27/2018	23	Y	y	v		1.0	0.13	mg/L
MW-11-3	1813498-07	Nitrate as N	4/27/2018	0.14	Y	y	v		0.10	0.021	mg/L
MW-12-4	1813498-18	Nitrate as N	4/28/2018	1.3	Y	y	v		0.10	0.021	mg/L
MW-12-4	1813498-18	Chloride	4/28/2018	14	Y	y	v		0.50	0.077	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-12-4	1813498-18	Sulfate	4/28/2018	32	Y	y	v		1.0	0.13	mg/L
MW-12-5	1813498-17	Nitrate as N	4/28/2018	1.4	Y	y	v		0.10	0.021	mg/L
MW-12-5	1813498-17	Chloride	4/28/2018	16	Y	y	v		0.50	0.077	mg/L
MW-12-5	1813498-17	Sulfate	4/28/2018	25	Y	y	v		1.0	0.13	mg/L
MW-13	1813498-13	Nitrate as N	4/28/2018	3.3	Y	y	v		0.10	0.021	mg/L
MW-13	1813498-13	Sulfate	4/28/2018	55	Y	y	v		1.0	0.13	mg/L
MW-13	1813498-13	Chloride	4/28/2018	79	Y	y	v		0.50	0.077	mg/L
MW-15	1813498-15	Sulfate	4/28/2018	51	Y	y	v		1.0	0.13	mg/L
MW-15	1813498-15	Nitrate as N	4/28/2018	1.2	Y	y	v		0.10	0.021	mg/L
MW-15	1813498-15	Chloride	4/28/2018	29	Y	y	v		0.50	0.077	mg/L
MW-18-2	1813498-05	Chloride	4/27/2018	16	Y	y	v		0.50	0.077	mg/L
MW-18-2	1813498-05	Sulfate	4/27/2018	36	Y	y	v		1.0	0.13	mg/L
MW-18-2	1813498-05	Nitrate as N	4/27/2018	0.55	Y	y	v		0.10	0.021	mg/L
MW-18-3	1813498-04	Nitrate as N	4/27/2018	1	Y	y	v		0.10	0.021	mg/L
MW-18-3	1813498-04	Sulfate	4/27/2018	39	Y	y	v		1.0	0.13	mg/L
MW-18-3	1813498-04	Chloride	4/27/2018	16	Y	y	v		0.50	0.077	mg/L
MW-18-4	1813498-03	Chloride	4/27/2018	13	Y	y	v		0.50	0.077	mg/L
MW-18-4	1813498-03	Nitrate as N	4/27/2018	1.5	Y	y	v		0.10	0.021	mg/L
MW-18-4	1813498-03	Sulfate	4/27/2018	25	Y	y	v		1.0	0.13	mg/L
MW-18-5	1813498-02	Nitrate as N	4/27/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-18-5	1813498-02	Sulfate	4/27/2018	2.6	Y	y	v		1.0	0.13	mg/L
MW-18-5	1813498-02	Chloride	4/27/2018	10	Y	y	v		0.50	0.077	mg/L
MW-5	1813498-12	Chloride	4/28/2018	8.7	Y	y	v		0.50	0.077	mg/L
MW-5	1813498-12	Sulfate	4/28/2018	29	Y	y	v		1.0	0.13	mg/L
MW-5	1813498-12	Nitrate as N	4/28/2018	1.5	Y	y	v		0.10	0.021	mg/L

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<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-6	1813498-11	Chloride	4/28/2018	120	Y	y	v		0.50	0.077	mg/L
MW-6	1813498-11	Nitrate as N	4/28/2018	13	Y	y	v		0.10	0.021	mg/L
MW-6	1813498-11	Sulfate	4/28/2018	200	Y	y	v		1.0	0.13	mg/L
MW-7	1813498-16	Chloride	4/28/2018	89	Y	y	v		0.50	0.077	mg/L
MW-7	1813498-16	Sulfate	4/28/2018	52	Y	y	v		1.0	0.13	mg/L
MW-7	1813498-16	Nitrate as N	4/28/2018	1.5	Y	y	v		0.10	0.021	mg/L
MW-8	1813498-14	Nitrate as N	4/28/2018	2.1	Y	y	v		0.10	0.021	mg/L
MW-8	1813498-14	Chloride	4/28/2018	23	Y	y	v		0.50	0.077	mg/L
MW-8	1813498-14	Sulfate	4/28/2018	39	Y	y	v		1.0	0.13	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-6-2Q18	1813498-08	Perchlorate	5/13/2018	0.81	Y	y	v j		4.0	0.58	ug/L
EB-7-042618	1813498-06	Perchlorate	5/13/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-1	1813498-10	Perchlorate	5/13/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-2	1813498-09	Perchlorate	5/13/2018	0.86	Y	y	v j		4.0	0.58	ug/L
MW-11-3	1813498-07	Perchlorate	5/13/2018	4	Y	n	u		4.0	0.58	ug/L
MW-12-4	1813498-18	Perchlorate	5/13/2018	1.4	Y	y	v j		4.0	0.58	ug/L
MW-12-5	1813498-17	Perchlorate	5/13/2018	1.3	Y	y	v j		4.0	0.58	ug/L
MW-13	1813498-13	Perchlorate	5/18/2018	230	Y	y	v		80	12	ug/L
MW-15	1813498-15	Perchlorate	5/13/2018	2.2	Y	y	v j		4.0	0.58	ug/L
MW-18-2	1813498-05	Perchlorate	5/13/2018	4	Y	n	u		4.0	0.58	ug/L
MW-18-3	1813498-04	Perchlorate	5/14/2018	4.6	Y	y	v		4.0	0.58	ug/L
MW-18-4	1813498-03	Perchlorate	5/13/2018	16	Y	y	v		4.0	0.58	ug/L
MW-18-5	1813498-02	Perchlorate	5/13/2018	4	Y	n	u		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-5	1813498-12	Perchlorate	5/13/2018	0.88	Y	y	v j		4.0	0.58	ug/L
MW-6	1813498-11	Perchlorate	5/13/2018	2.2	Y	y	v j		4.0	0.58	ug/L
MW-7	1813498-16	Perchlorate	5/14/2018	5	Y	y	v		4.0	0.58	ug/L
MW-8	1813498-14	Perchlorate	5/14/2018	23	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
DUP-6-2Q18	1813498-08	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
EB-7-042618	1813498-06	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-11-1	1813498-10	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-11-2	1813498-09	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-11-3	1813498-07	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-12-4	1813498-18	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-12-5	1813498-17	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-13	1813498-13	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-15	1813498-15	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-18-2	1813498-05	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-18-3	1813498-04	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-18-4	1813498-03	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-18-5	1813498-02	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-5	1813498-12	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-6	1813498-11	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-7	1813498-16	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-8	1813498-14	Nitrite as N	4/27/2018	0.05	Y	n	u		0.050	0.010	mg/L

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<b>Analytical Method</b>		EPA-365.1									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-11-1	1813498-10	ortho-Phosphate as P	4/27/2018	0.019	Y	y	v j		0.050	0.017	mg/L
MW-13	1813498-13	ortho-Phosphate as P	4/27/2018	0.055	Y	y	v		0.050	0.017	mg/L
MW-7	1813498-16	ortho-Phosphate as P	4/27/2018	0.022	Y	y	v j		0.050	0.017	mg/L
MW-8	1813498-14	ortho-Phosphate as P	4/27/2018	0.05	Y	n	u		0.050	0.017	mg/L

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-6-2Q18	1813498-08	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-2Q18	1813498-08	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-2Q18	1813498-08	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-6-2Q18	1813498-08	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-2Q18	1813498-08	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-6-2Q18	1813498-08	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-2Q18	1813498-08	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
DUP-6-2Q18	1813498-08	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-2Q18	1813498-08	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-2Q18	1813498-08	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-6-2Q18	1813498-08	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-2Q18	1813498-08	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-2Q18	1813498-08	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-2Q18	1813498-08	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-2Q18	1813498-08	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-2Q18	1813498-08	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-2Q18	1813498-08	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-2Q18	1813498-08	1,1-Dichloropropene	4/29/2018	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	
DUP-6-2Q18	1813498-08	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
DUP-6-2Q18	1813498-08	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
DUP-6-2Q18	1813498-08	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
DUP-6-2Q18	1813498-08	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L	
DUP-6-2Q18	1813498-08	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L	
DUP-6-2Q18	1813498-08	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L	
DUP-6-2Q18	1813498-08	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L	
DUP-6-2Q18	1813498-08	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
DUP-6-2Q18	1813498-08	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L	
DUP-6-2Q18	1813498-08	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L	
DUP-6-2Q18	1813498-08	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L	
DUP-6-2Q18	1813498-08	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L	
DUP-6-2Q18	1813498-08	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L	
DUP-6-2Q18	1813498-08	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L	
DUP-6-2Q18	1813498-08	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L	
DUP-6-2Q18	1813498-08	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-6-2Q18	1813498-08	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L	
DUP-6-2Q18	1813498-08	Chloroform	4/29/2018	0.15	Y	y	v j		0.50	0.14	ug/L	
DUP-6-2Q18	1813498-08	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L	
DUP-6-2Q18	1813498-08	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-6-2Q18	1813498-08	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L	
DUP-6-2Q18	1813498-08	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L	
DUP-6-2Q18	1813498-08	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L	
DUP-6-2Q18	1813498-08	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-6-2Q18	1813498-08	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	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-6-2Q18	1813498-08	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
DUP-6-2Q18	1813498-08	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-6-2Q18	1813498-08	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
DUP-6-2Q18	1813498-08	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-2Q18	1813498-08	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-2Q18	1813498-08	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-6-2Q18	1813498-08	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-6-2Q18	1813498-08	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-2Q18	1813498-08	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-2Q18	1813498-08	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-2Q18	1813498-08	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-2Q18	1813498-08	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-2Q18	1813498-08	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-6-2Q18	1813498-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-2Q18	1813498-08	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-2Q18	1813498-08	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-2Q18	1813498-08	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-6-2Q18	1813498-08	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-2Q18	1813498-08	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-2Q18	1813498-08	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
DUP-6-2Q18	1813498-08	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
DUP-6-2Q18	1813498-08	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-2Q18	1813498-08	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-2Q18	1813498-08	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-2Q18	1813498-08	p-Isopropyltoluene	4/29/2018	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
DUP-6-2Q18	1813498-08	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-6-2Q18	1813498-08	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-2Q18	1813498-08	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
DUP-6-2Q18	1813498-08	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-2Q18	1813498-08	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-2Q18	1813498-08	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-2Q18	1813498-08	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-2Q18	1813498-08	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-2Q18	1813498-08	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-2Q18	1813498-08	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-2Q18	1813498-08	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-2Q18	1813498-08	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-2Q18	1813498-08	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-042618	1813498-06	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-042618	1813498-06	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
EB-7-042618	1813498-06	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
EB-7-042618	1813498-06	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
EB-7-042618	1813498-06	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
EB-7-042618	1813498-06	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-042618	1813498-06	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
EB-7-042618	1813498-06	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
EB-7-042618	1813498-06	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-042618	1813498-06	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-042618	1813498-06	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-7-042618	1813498-06	1,2,4-Trimethylbenzene	4/29/2018	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
EB-7-042618	1813498-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-042618	1813498-06	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
EB-7-042618	1813498-06	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-042618	1813498-06	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-042618	1813498-06	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-042618	1813498-06	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-042618	1813498-06	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-042618	1813498-06	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
EB-7-042618	1813498-06	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
EB-7-042618	1813498-06	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-7-042618	1813498-06	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
EB-7-042618	1813498-06	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
EB-7-042618	1813498-06	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-7-042618	1813498-06	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
EB-7-042618	1813498-06	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
EB-7-042618	1813498-06	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-7-042618	1813498-06	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-042618	1813498-06	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
EB-7-042618	1813498-06	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-042618	1813498-06	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-042618	1813498-06	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-7-042618	1813498-06	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-042618	1813498-06	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
EB-7-042618	1813498-06	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-042618	1813498-06	n-Butylbenzene	4/29/2018	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	
EB-7-042618	1813498-06	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L	
EB-7-042618	1813498-06	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-7-042618	1813498-06	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L	
EB-7-042618	1813498-06	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L	
EB-7-042618	1813498-06	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L	
EB-7-042618	1813498-06	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L	
EB-7-042618	1813498-06	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-7-042618	1813498-06	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-7-042618	1813498-06	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-7-042618	1813498-06	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-7-042618	1813498-06	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L	
EB-7-042618	1813498-06	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-7-042618	1813498-06	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L	
EB-7-042618	1813498-06	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L	
EB-7-042618	1813498-06	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L	
EB-7-042618	1813498-06	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L	
EB-7-042618	1813498-06	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L	
EB-7-042618	1813498-06	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-7-042618	1813498-06	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L	
EB-7-042618	1813498-06	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-7-042618	1813498-06	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-7-042618	1813498-06	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-7-042618	1813498-06	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L	
EB-7-042618	1813498-06	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L	
EB-7-042618	1813498-06	Tetrachloroethene	4/29/2018	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
EB-7-042618	1813498-06	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-042618	1813498-06	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-042618	1813498-06	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-042618	1813498-06	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-042618	1813498-06	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-042618	1813498-06	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-042618	1813498-06	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-042618	1813498-06	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-042618	1813498-06	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-042618	1813498-06	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-042618	1813498-06	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-042618	1813498-06	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-042618	1813498-06	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-042618	1813498-06	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-042618	1813498-06	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-042618	1813498-06	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-042618	1813498-06	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-042618	1813498-06	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-042618	1813498-06	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1813498-10	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1813498-10	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-11-1	1813498-10	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-1	1813498-10	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-1	1813498-10	t-Amyl Methyl ether	4/29/2018	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-11-1	1813498-10	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1813498-10	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-1	1813498-10	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1813498-10	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1813498-10	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1813498-10	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1813498-10	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1813498-10	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1813498-10	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-1	1813498-10	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-11-1	1813498-10	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1813498-10	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1813498-10	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1813498-10	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-1	1813498-10	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1813498-10	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-11-1	1813498-10	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1813498-10	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-1	1813498-10	Carbon tetrachloride	4/29/2018	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-11-1	1813498-10	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-1	1813498-10	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1813498-10	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1813498-10	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1813498-10	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1813498-10	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1813498-10	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1813498-10	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1813498-10	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1813498-10	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1813498-10	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-1	1813498-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1813498-10	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1813498-10	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1813498-10	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-11-1	1813498-10	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-1	1813498-10	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1813498-10	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-11-1	1813498-10	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-1	1813498-10	Pentachloroethane	4/29/2018	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-11-1	1813498-10	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-1	1813498-10	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-11-1	1813498-10	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-1	1813498-10	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1813498-10	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-1	1813498-10	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-1	1813498-10	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-1	1813498-10	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1813498-10	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-11-1	1813498-10	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-11-1	1813498-10	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1813498-10	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1813498-10	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1813498-10	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1813498-10	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1813498-10	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1813498-10	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-11-1	1813498-10	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-1	1813498-10	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1813498-10	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1813498-10	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1813498-10	Ethylbenzene	4/29/2018	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-11-2	1813498-09	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-2	1813498-09	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-11-2	1813498-09	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-2	1813498-09	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-2	1813498-09	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-2	1813498-09	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-11-2	1813498-09	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-11-2	1813498-09	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-11-2	1813498-09	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-2	1813498-09	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1813498-09	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-2	1813498-09	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-11-2	1813498-09	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-2	1813498-09	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-11-2	1813498-09	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1813498-09	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1813498-09	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1813498-09	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-2	1813498-09	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1813498-09	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-2	1813498-09	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1813498-09	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1813498-09	tert-Butylbenzene	4/29/2018	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-11-2	1813498-09	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1813498-09	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1813498-09	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1813498-09	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-11-2	1813498-09	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1813498-09	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-2	1813498-09	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1813498-09	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-11-2	1813498-09	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-2	1813498-09	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1813498-09	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-2	1813498-09	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1813498-09	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-2	1813498-09	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1813498-09	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1813498-09	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1813498-09	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	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	1813498-09	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1813498-09	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1813498-09	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1813498-09	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1813498-09	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1813498-09	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1813498-09	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1813498-09	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1813498-09	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1813498-09	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-11-2	1813498-09	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1813498-09	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1813498-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1813498-09	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-2	1813498-09	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1813498-09	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1813498-09	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-2	1813498-09	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1813498-09	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1813498-09	1,1,2,2-Tetrachloroethane	4/29/2018	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-11-2	1813498-09	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1813498-09	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1813498-09	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1813498-09	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1813498-09	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1813498-09	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1813498-07	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1813498-07	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1813498-07	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1813498-07	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1813498-07	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1813498-07	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1813498-07	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1813498-07	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1813498-07	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1813498-07	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1813498-07	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1813498-07	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1813498-07	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1813498-07	cis-1,3-Dichloropropene	4/29/2018	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-11-3	1813498-07	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
MW-11-3	1813498-07	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L	
MW-11-3	1813498-07	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L	
MW-11-3	1813498-07	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-11-3	1813498-07	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L	
MW-11-3	1813498-07	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L	
MW-11-3	1813498-07	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L	
MW-11-3	1813498-07	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L	
MW-11-3	1813498-07	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L	
MW-11-3	1813498-07	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L	
MW-11-3	1813498-07	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L	
MW-11-3	1813498-07	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L	
MW-11-3	1813498-07	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-11-3	1813498-07	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L	
MW-11-3	1813498-07	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L	
MW-11-3	1813498-07	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L	
MW-11-3	1813498-07	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-11-3	1813498-07	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-11-3	1813498-07	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L	
MW-11-3	1813498-07	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L	
MW-11-3	1813498-07	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-11-3	1813498-07	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-11-3	1813498-07	Chloroform	4/29/2018	0.21	Y	y	v j		0.50	0.14	ug/L	
MW-11-3	1813498-07	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-11-3	1813498-07	1,2-Dibromo-3-chloropropane	4/29/2018	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-11-3	1813498-07	Carbon tetrachloride	4/29/2018	0.2	Y	y	v j		0.50	0.17	ug/L
MW-11-3	1813498-07	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1813498-07	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1813498-07	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-3	1813498-07	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-3	1813498-07	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1813498-07	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1813498-07	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-11-3	1813498-07	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1813498-07	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1813498-07	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-11-3	1813498-07	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1813498-07	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-3	1813498-07	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-3	1813498-07	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-3	1813498-07	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1813498-07	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1813498-07	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1813498-07	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1813498-07	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1813498-07	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1813498-07	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1813498-07	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1813498-07	Trichloroethene	4/29/2018	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-11-3	1813498-07	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-3	1813498-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1813498-07	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1813498-07	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1813498-07	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1813498-07	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1813498-07	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-11-3	1813498-07	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-3	1813498-07	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-3	1813498-07	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1813498-07	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-11-3	1813498-07	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1813498-18	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-4	1813498-18	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-4	1813498-18	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1813498-18	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-4	1813498-18	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-4	1813498-18	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-12-4	1813498-18	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1813498-18	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-4	1813498-18	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-12-4	1813498-18	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-4	1813498-18	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1813498-18	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	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	1813498-18	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1813498-18	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-12-4	1813498-18	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-4	1813498-18	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-12-4	1813498-18	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-12-4	1813498-18	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-4	1813498-18	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-4	1813498-18	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-12-4	1813498-18	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-4	1813498-18	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-12-4	1813498-18	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-4	1813498-18	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1813498-18	Chloroform	4/29/2018	0.32	Y	y	v j		0.50	0.14	ug/L
MW-12-4	1813498-18	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1813498-18	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1813498-18	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1813498-18	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1813498-18	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1813498-18	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1813498-18	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1813498-18	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-4	1813498-18	trans-1,2-Dichloroethene	4/29/2018	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-12-4	1813498-18	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1813498-18	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1813498-18	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	Carbon tetrachloride	4/29/2018	0.26	Y	y	v j		0.50	0.17	ug/L
MW-12-4	1813498-18	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1813498-18	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-4	1813498-18	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-4	1813498-18	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1813498-18	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1813498-18	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1813498-18	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1813498-18	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-4	1813498-18	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1813498-18	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1813498-18	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-4	1813498-18	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1813498-18	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1813498-18	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1813498-18	Toluene	4/29/2018	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	RL	MDL	Units
MW-12-4	1813498-18	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1813498-18	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1813498-18	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1813498-18	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1813498-18	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1813498-18	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1813498-18	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1813498-18	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1813498-18	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1813498-18	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1813498-18	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1813498-18	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1813498-18	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1813498-18	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1813498-18	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1813498-17	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1813498-17	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1813498-17	cis-1,2-Dichloroethene	4/29/2018	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
MW-12-5	1813498-17	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1813498-17	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1813498-17	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1813498-17	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1813498-17	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1813498-17	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1813498-17	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1813498-17	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-5	1813498-17	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1813498-17	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1813498-17	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-5	1813498-17	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-5	1813498-17	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1813498-17	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	1,2-Dichlorobenzene	4/29/2018	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-12-5	1813498-17	Chloroform	4/29/2018	0.28	Y	y	v j		0.50	0.14	ug/L
MW-12-5	1813498-17	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1813498-17	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-5	1813498-17	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1813498-17	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-5	1813498-17	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1813498-17	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1813498-17	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1813498-17	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-5	1813498-17	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1813498-17	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-12-5	1813498-17	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-5	1813498-17	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-5	1813498-17	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-5	1813498-17	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1813498-17	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-12-5	1813498-17	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-5	1813498-17	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-12-5	1813498-17	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-12-5	1813498-17	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-12-5	1813498-17	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-5	1813498-17	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-5	1813498-17	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-12-5	1813498-17	Tetrahydrofuran	4/29/2018	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-12-5	1813498-17	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-5	1813498-17	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1813498-17	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1813498-17	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-12-5	1813498-17	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1813498-17	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1813498-17	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1813498-17	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1813498-17	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1813498-17	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1813498-17	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-5	1813498-17	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1813498-17	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-5	1813498-17	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1813498-17	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-5	1813498-17	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1813498-17	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1813498-17	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1813498-17	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1813498-17	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1813498-17	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	Dibromomethane	4/29/2018	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-13	1813498-13	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1813498-13	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-13	1813498-13	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1813498-13	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1813498-13	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1813498-13	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1813498-13	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1813498-13	1,2-Dichloroethane	4/29/2018	0.21	Y	y	v j		0.50	0.17	ug/L
MW-13	1813498-13	1,1-Dichloroethane	4/29/2018	0.21	Y	y	v j		0.50	0.15	ug/L
MW-13	1813498-13	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1813498-13	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1813498-13	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1813498-13	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1813498-13	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-13	1813498-13	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1813498-13	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Vinyl chloride	4/29/2018	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-13	1813498-13	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1813498-13	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-13	1813498-13	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1813498-13	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1813498-13	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1813498-13	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1813498-13	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1813498-13	Tetrachloroethene	4/29/2018	0.58	Y	y	v		0.50	0.23	ug/L
MW-13	1813498-13	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1813498-13	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1813498-13	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1813498-13	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1813498-13	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1813498-13	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1813498-13	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1813498-13	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-13	1813498-13	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-13	1813498-13	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-13	1813498-13	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-13	1813498-13	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-13	1813498-13	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-13	1813498-13	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1813498-13	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	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-13	1813498-13	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-13	1813498-13	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-13	1813498-13	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-13	1813498-13	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1813498-13	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-13	1813498-13	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-13	1813498-13	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-13	1813498-13	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-13	1813498-13	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-13	1813498-13	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1813498-13	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-13	1813498-13	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1813498-13	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-13	1813498-13	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1813498-13	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-13	1813498-13	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1813498-13	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Chloroform	4/29/2018	3.9	Y	y	v		0.50	0.14	ug/L
MW-13	1813498-13	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1813498-13	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1813498-13	Carbon tetrachloride	4/29/2018	0.43	Y	y	v j		0.50	0.17	ug/L
MW-13	1813498-13	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1813498-13	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1813498-13	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1813498-13	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	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-13	1813498-13	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-13	1813498-13	Bromodichloromethane	4/29/2018	0.49	Y	y	v j		0.50	0.20	ug/L
MW-13	1813498-13	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1813498-13	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-13	1813498-13	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-15	1813498-15	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-15	1813498-15	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1813498-15	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-15	1813498-15	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1813498-15	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-15	1813498-15	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-15	1813498-15	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-15	1813498-15	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-15	1813498-15	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-15	1813498-15	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1813498-15	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1813498-15	tert-Butylbenzene	4/29/2018	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-15	1813498-15	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1813498-15	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-15	1813498-15	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-15	1813498-15	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-15	1813498-15	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1813498-15	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1813498-15	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-15	1813498-15	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-15	1813498-15	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-15	1813498-15	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-15	1813498-15	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-15	1813498-15	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1813498-15	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-15	1813498-15	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-15	1813498-15	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-15	1813498-15	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-15	1813498-15	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-15	1813498-15	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-15	1813498-15	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-15	1813498-15	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-15	1813498-15	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-15	1813498-15	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-15	1813498-15	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	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-15	1813498-15	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-15	1813498-15	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-15	1813498-15	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-15	1813498-15	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-15	1813498-15	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-15	1813498-15	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-15	1813498-15	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1813498-15	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-15	1813498-15	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-15	1813498-15	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1813498-15	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-15	1813498-15	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1813498-15	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1813498-15	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-15	1813498-15	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1813498-15	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-15	1813498-15	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-15	1813498-15	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1813498-15	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1813498-15	1,1,2,2-Tetrachloroethane	4/29/2018	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-15	1813498-15	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-15	1813498-15	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1813498-15	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1813498-15	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1813498-15	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1813498-15	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1813498-15	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1813498-15	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1813498-15	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-15	1813498-15	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-2	1813498-05	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1813498-05	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1813498-05	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1813498-05	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1813498-05	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1813498-05	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1813498-05	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1813498-05	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1813498-05	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1813498-05	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1813498-05	cis-1,3-Dichloropropene	4/29/2018	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	1813498-05	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1813498-05	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1813498-05	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1813498-05	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-2	1813498-05	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1813498-05	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1813498-05	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1813498-05	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-2	1813498-05	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-2	1813498-05	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1813498-05	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1813498-05	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-2	1813498-05	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1813498-05	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-2	1813498-05	1,1-Dichloroethane	4/29/2018	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-18-2	1813498-05	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1813498-05	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-2	1813498-05	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1813498-05	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-2	1813498-05	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-2	1813498-05	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-18-2	1813498-05	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-2	1813498-05	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-2	1813498-05	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-2	1813498-05	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-2	1813498-05	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-2	1813498-05	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-2	1813498-05	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-2	1813498-05	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-2	1813498-05	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-2	1813498-05	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-2	1813498-05	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-2	1813498-05	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-2	1813498-05	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1813498-05	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1813498-05	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1813498-05	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	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-18-2	1813498-05	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-2	1813498-05	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1813498-05	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1813498-05	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1813498-05	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1813498-05	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1813498-05	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1813498-05	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1813498-05	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-2	1813498-05	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1813498-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1813498-05	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1813498-05	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1813498-05	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1813498-05	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-3	1813498-04	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1813498-04	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-3	1813498-04	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-3	1813498-04	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-3	1813498-04	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1813498-04	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1813498-04	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	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	1813498-04	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-18-3	1813498-04	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-3	1813498-04	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1813498-04	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-3	1813498-04	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-3	1813498-04	Carbon tetrachloride	4/29/2018	0.53	Y	y	v		0.50	0.17	ug/L
MW-18-3	1813498-04	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-3	1813498-04	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-3	1813498-04	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-3	1813498-04	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-3	1813498-04	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-3	1813498-04	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1813498-04	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1813498-04	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-3	1813498-04	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1813498-04	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-3	1813498-04	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-3	1813498-04	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-3	1813498-04	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-3	1813498-04	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-3	1813498-04	tert-Butylbenzene	4/29/2018	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-18-3	1813498-04	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-3	1813498-04	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1813498-04	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1813498-04	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1813498-04	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1813498-04	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1813498-04	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1813498-04	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-3	1813498-04	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1813498-04	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1813498-04	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1813498-04	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1813498-04	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1813498-04	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1813498-04	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1813498-04	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1813498-04	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1813498-04	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-3	1813498-04	1,1,2,2-Tetrachloroethane	4/29/2018	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-18-3	1813498-04	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1813498-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1813498-04	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-3	1813498-04	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1813498-04	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1813498-04	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1813498-04	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1813498-04	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1813498-04	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1813498-04	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1813498-04	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1813498-04	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1813498-04	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1813498-04	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1813498-04	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1813498-04	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1813498-04	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1813498-04	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1813498-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1813498-03	1,2,4-Trimethylbenzene	4/29/2018	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-18-4	1813498-03	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-4	1813498-03	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	Tetrachloroethene	4/29/2018	0.73	Y	y	v		0.50	0.23	ug/L
MW-18-4	1813498-03	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-4	1813498-03	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1813498-03	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1813498-03	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1813498-03	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1813498-03	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1813498-03	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1813498-03	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1813498-03	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1813498-03	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1813498-03	Trichloroethene	4/29/2018	1.6	Y	y	v		0.50	0.19	ug/L
MW-18-4	1813498-03	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1813498-03	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-4	1813498-03	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-4	1813498-03	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-4	1813498-03	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-4	1813498-03	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-4	1813498-03	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	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-18-4	1813498-03	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-4	1813498-03	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-4	1813498-03	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-4	1813498-03	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-4	1813498-03	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-4	1813498-03	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-4	1813498-03	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-18-4	1813498-03	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1813498-03	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-4	1813498-03	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1813498-03	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-4	1813498-03	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-4	1813498-03	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-4	1813498-03	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1813498-03	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1813498-03	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-4	1813498-03	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1813498-03	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-4	1813498-03	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1813498-03	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1813498-03	Dibromochloromethane	4/29/2018	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-18-4	1813498-03	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-4	1813498-03	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-4	1813498-03	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1813498-03	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1813498-03	Carbon tetrachloride	4/29/2018	7.7	Y	y	v		0.50	0.17	ug/L
MW-18-4	1813498-03	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1813498-03	Chloroform	4/29/2018	1.7	Y	y	v		0.50	0.14	ug/L
MW-18-4	1813498-03	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1813498-03	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1813498-03	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1813498-03	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1813498-03	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1813498-03	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1813498-03	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1813498-03	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1813498-03	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1813498-03	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1813498-03	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-4	1813498-03	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1813498-03	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	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	1813498-03	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1813498-03	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-4	1813498-03	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-4	1813498-03	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1813498-02	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1813498-02	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1813498-02	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1813498-02	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1813498-02	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1813498-02	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1813498-02	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1813498-02	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1813498-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1813498-02	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-5	1813498-02	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-5	1813498-02	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1813498-02	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-5	1813498-02	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1813498-02	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1813498-02	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1813498-02	1,1,2,2-Tetrachloroethane	4/29/2018	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-18-5	1813498-02	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1813498-02	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-18-5	1813498-02	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1813498-02	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1813498-02	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-5	1813498-02	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-18-5	1813498-02	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-5	1813498-02	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-5	1813498-02	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-18-5	1813498-02	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-5	1813498-02	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-18-5	1813498-02	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-18-5	1813498-02	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-18-5	1813498-02	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1813498-02	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-5	1813498-02	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-5	1813498-02	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-5	1813498-02	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-18-5	1813498-02	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-5	1813498-02	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-18-5	1813498-02	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1813498-02	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-18-5	1813498-02	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1813498-02	1,2-Dichlorobenzene	4/29/2018	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-18-5	1813498-02	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1813498-02	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1813498-02	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-5	1813498-02	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1813498-02	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-5	1813498-02	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1813498-02	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1813498-02	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1813498-02	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1813498-02	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1813498-02	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-5	1813498-02	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1813498-02	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1813498-02	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1813498-02	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1813498-02	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1813498-02	cis-1,3-Dichloropropene	4/29/2018	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-18-5	1813498-02	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-5	1813498-02	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1813498-02	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1813498-02	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1813498-02	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1813498-02	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1813498-02	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1813498-02	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1813498-02	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1813498-12	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-5	1813498-12	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-5	1813498-12	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1813498-12	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1813498-12	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1813498-12	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1813498-12	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1813498-12	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1813498-12	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1813498-12	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1813498-12	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1813498-12	1,4-Dichlorobenzene	4/29/2018	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-5	1813498-12	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1813498-12	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1813498-12	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1813498-12	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1813498-12	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-5	1813498-12	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1813498-12	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-5	1813498-12	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1813498-12	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1813498-12	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1813498-12	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1813498-12	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1813498-12	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1813498-12	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1813498-12	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1813498-12	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1813498-12	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1813498-12	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1813498-12	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1813498-12	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	Isopropylbenzene	4/29/2018	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-5	1813498-12	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-5	1813498-12	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-5	1813498-12	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-5	1813498-12	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-5	1813498-12	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-5	1813498-12	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1813498-12	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-5	1813498-12	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-5	1813498-12	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1813498-12	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-5	1813498-12	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-5	1813498-12	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-5	1813498-12	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1813498-12	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-5	1813498-12	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-5	1813498-12	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-5	1813498-12	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1813498-12	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-5	1813498-12	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-5	1813498-12	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1813498-12	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1813498-12	Chloroform	4/29/2018	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-5	1813498-12	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1813498-12	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1813498-12	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1813498-12	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1813498-12	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-5	1813498-12	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-5	1813498-12	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-5	1813498-12	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1813498-12	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1813498-12	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1813498-12	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1813498-12	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1813498-12	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-5	1813498-12	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-5	1813498-12	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-6	1813498-11	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-6	1813498-11	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-6	1813498-11	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-6	1813498-11	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-6	1813498-11	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-6	1813498-11	t-Amyl Methyl ether	4/29/2018	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-6	1813498-11	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-6	1813498-11	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-6	1813498-11	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1813498-11	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1813498-11	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-6	1813498-11	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1813498-11	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1813498-11	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-6	1813498-11	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	Trichloroethene	4/29/2018	4.5	Y	y	v		0.50	0.19	ug/L
MW-6	1813498-11	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1813498-11	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1813498-11	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1813498-11	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-6	1813498-11	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1813498-11	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1813498-11	Chloroform	4/29/2018	0.84	Y	y	v		0.50	0.14	ug/L
MW-6	1813498-11	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1813498-11	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1813498-11	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1813498-11	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-6	1813498-11	Bromodichloromethane	4/29/2018	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-6	1813498-11	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1813498-11	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-6	1813498-11	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1813498-11	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-6	1813498-11	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-6	1813498-11	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-6	1813498-11	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-6	1813498-11	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-6	1813498-11	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-6	1813498-11	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-6	1813498-11	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-6	1813498-11	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-6	1813498-11	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1813498-11	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-6	1813498-11	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1813498-11	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1813498-11	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1813498-11	1,1-Dichloroethane	4/29/2018	0.19	Y	y	v j		0.50	0.15	ug/L
MW-6	1813498-11	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	trans-1,2-Dichloroethene	4/29/2018	0.22	Y	y	v j		0.50	0.17	ug/L
MW-6	1813498-11	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-6	1813498-11	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1813498-11	Dibromochloromethane	4/29/2018	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-6	1813498-11	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-6	1813498-11	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1813498-11	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1813498-11	Tetrachloroethene	4/29/2018	0.98	Y	y	v		0.50	0.23	ug/L
MW-6	1813498-11	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1813498-11	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1813498-11	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1813498-11	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1813498-11	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1813498-11	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1813498-11	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1813498-11	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1813498-11	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1813498-11	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1813498-11	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1813498-11	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1813498-11	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1813498-11	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1813498-11	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1813498-16	1,3-Dichlorobenzene	4/29/2018	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
MW-7	1813498-16	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1813498-16	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1813498-16	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1813498-16	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1813498-16	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1813498-16	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1813498-16	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1813498-16	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1813498-16	Bromodichloromethane	4/29/2018	0.42	Y	y	v j		0.50	0.20	ug/L
MW-7	1813498-16	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1813498-16	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1813498-16	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1813498-16	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1813498-16	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1813498-16	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1813498-16	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-7	1813498-16	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1813498

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	1813498-16	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-7	1813498-16	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1813498-16	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1813498-16	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1813498-16	Chloroform	4/29/2018	3.7	Y	y	v		0.50	0.14	ug/L
MW-7	1813498-16	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1813498-16	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-7	1813498-16	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1813498-16	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-7	1813498-16	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1813498-16	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1813498-16	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-7	1813498-16	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-7	1813498-16	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-7	1813498-16	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-7	1813498-16	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-7	1813498-16	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-7	1813498-16	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-7	1813498-16	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1813498-16	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1813498-16	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1813498-16	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-7	1813498-16	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	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-7	1813498-16	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-7	1813498-16	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-7	1813498-16	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1813498-16	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-7	1813498-16	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-7	1813498-16	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-7	1813498-16	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-7	1813498-16	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-7	1813498-16	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1813498-16	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1813498-16	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-7	1813498-16	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1813498-16	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1813498-16	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1813498-16	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1813498-16	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1813498-16	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1813498-16	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1813498-16	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-7	1813498-16	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1813498-16	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-7	1813498-16	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1813498-16	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1813498-16	1,2,4-Trimethylbenzene	4/29/2018	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-7	1813498-16	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1813498-16	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-7	1813498-16	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
MW-8	1813498-14	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
MW-8	1813498-14	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
MW-8	1813498-14	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
MW-8	1813498-14	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-8	1813498-14	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
MW-8	1813498-14	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1813498-14	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
MW-8	1813498-14	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-8	1813498-14	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
MW-8	1813498-14	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-8	1813498-14	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
MW-8	1813498-14	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-8	1813498-14	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
MW-8	1813498-14	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1813498-14	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
MW-8	1813498-14	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-8	1813498-14	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
MW-8	1813498-14	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1813498-14	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1813498-14	1,2-Dichlorobenzene	4/29/2018	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-8	1813498-14	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1813498-14	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
MW-8	1813498-14	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1813498-14	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1813498-14	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1813498-14	trans-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1813498-14	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1813498-14	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1813498-14	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1813498-14	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1813498-14	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1813498-14	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1813498-14	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1813498-14	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-8	1813498-14	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-8	1813498-14	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1813498-14	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1813498-14	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1813498-14	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	Chloroethane	4/29/2018	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-8	1813498-14	Chloroform	4/29/2018	0.41	Y	y	v j		0.50	0.14	ug/L
MW-8	1813498-14	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1813498-14	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-8	1813498-14	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1813498-14	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1813498-14	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1813498-14	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1813498-14	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1813498-14	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1813498-14	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1813498-14	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1813498-14	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1813498-14	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1813498-14	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
MW-8	1813498-14	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1813498-14	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1813498-14	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
MW-8	1813498-14	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
MW-8	1813498-14	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
MW-8	1813498-14	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1813498-14	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1813498-14	Trichlorofluoromethane	4/29/2018	0.74	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-8	1813498-14	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1813498-14	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1813498-14	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1813498-14	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1813498-14	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1813498-14	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1813498-14	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	Methyl ethyl ketone	4/29/2018	10	Y	n	u		10	3.3	ug/L
TB-7-042618	1813498-01	t-Butyl alcohol	4/29/2018	10	Y	n	u		10	9.4	ug/L
TB-7-042618	1813498-01	1,2-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-042618	1813498-01	cis-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	1,1-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-042618	1813498-01	Carbon disulfide	4/29/2018	1	Y	n	u		1.0	0.48	ug/L
TB-7-042618	1813498-01	trans-1,4-Dichloro-2-butene	4/29/2018	5	Y	n	u	UJ	5.0	1.8	ug/L
TB-7-042618	1813498-01	Diethyl ether	4/29/2018	2	Y	n	u		2.0	0.33	ug/L
TB-7-042618	1813498-01	Ethyl methacrylate	4/29/2018	4	Y	n	u		4.0	1.3	ug/L
TB-7-042618	1813498-01	Ethyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-7-042618	1813498-01	Hexachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-042618	1813498-01	2-Hexanone	4/29/2018	10	Y	n	u		10	5.0	ug/L
TB-7-042618	1813498-01	Methyl iodide	4/29/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-7-042618	1813498-01	cis-1,2-Dichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-042618	1813498-01	Propionitrile	4/29/2018	20	Y	n	u		20	6.2	ug/L
TB-7-042618	1813498-01	trans-1,2-Dichloroethene	4/29/2018	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-7-042618	1813498-01	1,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	trans-1,3-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-042618	1813498-01	o-Xylene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-042618	1813498-01	Vinyl chloride	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-042618	1813498-01	Methyl isobutyl ketone	4/29/2018	10	Y	n	u		10	2.4	ug/L
TB-7-042618	1813498-01	1,1-Dichloropropene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-042618	1813498-01	Methyl methacrylate	4/29/2018	5	Y	n	u		5.0	1.2	ug/L
TB-7-042618	1813498-01	2,2-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-042618	1813498-01	p- & m-Xylenes	4/29/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-7-042618	1813498-01	Pentachloroethane	4/29/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-7-042618	1813498-01	Tetrahydrofuran	4/29/2018	20	Y	n	u		20	5.2	ug/L
TB-7-042618	1813498-01	Methacrylonitrile	4/29/2018	10	Y	n	u		10	2.3	ug/L
TB-7-042618	1813498-01	1,2,4-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-042618	1813498-01	n-Propylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-042618	1813498-01	Styrene	4/29/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-042618	1813498-01	1,1,1,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-042618	1813498-01	1,1,2,2-Tetrachloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-042618	1813498-01	Tetrachloroethene	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-042618	1813498-01	Toluene	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-042618	1813498-01	1,2,3-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-042618	1813498-01	1,2,4-Trichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	1,1,1-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-042618	1813498-01	1,1,2-Trichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-042618	1813498-01	Trichloroethene	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-042618	1813498-01	Trichlorofluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L



SDG: 1813498

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-7-042618	1813498-01	Acrylonitrile	4/29/2018	5	Y	n	u		5.0	1.5	ug/L
TB-7-042618	1813498-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-042618	1813498-01	t-Amyl Methyl ether	4/29/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-042618	1813498-01	1,3,5-Trimethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	1,3-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-042618	1813498-01	1,1-Dichloroethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	Naphthalene	4/29/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-042618	1813498-01	Methyl t-butyl ether	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	Methylene chloride	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-042618	1813498-01	p-Isopropyltoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	Isopropylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	Hexachlorobutadiene	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-042618	1813498-01	Ethylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	Acetone	4/29/2018	10	Y	n	u		10	6.6	ug/L
TB-7-042618	1813498-01	Allyl chloride	4/29/2018	5	Y	n	u		5.0	0.47	ug/L
TB-7-042618	1813498-01	1,2,3-Trichloropropane	4/29/2018	1	Y	n	u		1.0	0.78	ug/L
TB-7-042618	1813498-01	4-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-7-042618	1813498-01	1,2-Dibromoethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-042618	1813498-01	Bromobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	Bromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-042618	1813498-01	Bromodichloromethane	4/29/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-042618	1813498-01	Bromoform	4/29/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-7-042618	1813498-01	1,2-Dibromo-3-chloropropane	4/29/2018	1	Y	n	u		1.0	0.89	ug/L
TB-7-042618	1813498-01	Benzene	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-042618	1813498-01	1,2-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1813498

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
TB-7-042618	1813498-01	Dibromomethane	4/29/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-042618	1813498-01	Dibromochloromethane	4/29/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-042618	1813498-01	1,3-Dichloropropane	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-042618	1813498-01	2-Chlorotoluene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	Chloroethane	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-042618	1813498-01	n-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	sec-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-042618	1813498-01	Bromomethane	4/29/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-7-042618	1813498-01	Chloroform	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	tert-Butylbenzene	4/29/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-042618	1813498-01	Chloromethane	4/29/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-042618	1813498-01	Carbon tetrachloride	4/29/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-042618	1813498-01	1,4-Dichlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-042618	1813498-01	Chlorobenzene	4/29/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-042618	1813498-01	Dichlorodifluoromethane	4/29/2018	0.5	Y	n	u		0.50	0.15	ug/L

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-6-2Q18	1813498-08	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-7-042618	1813498-06	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-1	1813498-10	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-2	1813498-09	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-3	1813498-07	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-12-4	1813498-18	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-12-5	1813498-17	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

SDG: 1813498

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-13	1813498-13	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-15	1813498-15	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-18-2	1813498-05	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-18-3	1813498-04	Hexavalent Chromium	4/27/2018	0.0018	Y	y	v j		0.0020	0.0007	mg/L
MW-18-4	1813498-03	Hexavalent Chromium	4/27/2018	0.0022	Y	y	v		0.0020	0.0007	mg/L
MW-18-5	1813498-02	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-5	1813498-12	Hexavalent Chromium	4/27/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-6	1813498-11	Hexavalent Chromium	4/27/2018	0.0016	Y	y	v j	J	0.0020	0.0007	mg/L
MW-7	1813498-16	Hexavalent Chromium	4/27/2018	0.004	Y	n	u		0.0040	0.0014	mg/L
MW-8	1813498-14	Hexavalent Chromium	4/27/2018	0.0012	Y	y	v j		0.0020	0.0007	mg/L

<b>Analytical Method</b>		EPA-8270D									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-13	1813498-13	1,4-Dioxane	5/4/2018	1	Y	n	u		1.0	0.10	ug/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-6-2Q18	1813498-08	Bicarbonate	5/4/2018	210	Y	y	v		5.0	5.0	mg/L
DUP-6-2Q18	1813498-08	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
DUP-6-2Q18	1813498-08	Total Alkalinity as CaCO3	5/4/2018	170	Y	y	v		4.1	4.1	mg/L
EB-7-042618	1813498-06	Bicarbonate	5/4/2018	5	Y	n	u		5.0	5.0	mg/L
EB-7-042618	1813498-06	Total Alkalinity as CaCO3	5/4/2018	4.1	Y	n	u		4.1	4.1	mg/L
EB-7-042618	1813498-06	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-11-1	1813498-10	Total Alkalinity as CaCO3	5/4/2018	230	Y	y	v		4.1	4.1	mg/L
MW-11-1	1813498-10	Bicarbonate	5/4/2018	290	Y	y	v		5.0	5.0	mg/L
MW-11-1	1813498-10	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L

SDG: 1813498

Analytical Method SM-2320B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1813498-09	Total Alkalinity as CaCO3	5/4/2018	170	Y	y	v		4.1	4.1	mg/L
MW-11-2	1813498-09	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-11-2	1813498-09	Bicarbonate	5/4/2018	210	Y	y	v		5.0	5.0	mg/L
MW-11-3	1813498-07	Total Alkalinity as CaCO3	5/4/2018	170	Y	y	v		4.1	4.1	mg/L
MW-11-3	1813498-07	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-11-3	1813498-07	Bicarbonate	5/4/2018	210	Y	y	v		5.0	5.0	mg/L
MW-12-4	1813498-18	Bicarbonate	5/4/2018	240	Y	y	v		5.0	5.0	mg/L
MW-12-4	1813498-18	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-12-4	1813498-18	Total Alkalinity as CaCO3	5/4/2018	200	Y	y	v		4.1	4.1	mg/L
MW-12-5	1813498-17	Bicarbonate	5/4/2018	230	Y	y	v		5.0	5.0	mg/L
MW-12-5	1813498-17	Total Alkalinity as CaCO3	5/4/2018	190	Y	y	v		4.1	4.1	mg/L
MW-12-5	1813498-17	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-13	1813498-13	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-13	1813498-13	Total Alkalinity as CaCO3	5/4/2018	190	Y	y	v		4.1	4.1	mg/L
MW-13	1813498-13	Bicarbonate	5/4/2018	240	Y	y	v		5.0	5.0	mg/L
MW-15	1813498-15	Total Alkalinity as CaCO3	5/4/2018	220	Y	y	v		4.1	4.1	mg/L
MW-15	1813498-15	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-15	1813498-15	Bicarbonate	5/4/2018	260	Y	y	v		5.0	5.0	mg/L
MW-18-2	1813498-05	Bicarbonate	5/4/2018	260	Y	y	v		5.0	5.0	mg/L
MW-18-2	1813498-05	Total Alkalinity as CaCO3	5/4/2018	220	Y	y	v		4.1	4.1	mg/L
MW-18-2	1813498-05	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-18-3	1813498-04	Bicarbonate	5/4/2018	250	Y	y	v		5.0	5.0	mg/L
MW-18-3	1813498-04	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-18-3	1813498-04	Total Alkalinity as CaCO3	5/4/2018	210	Y	y	v		4.1	4.1	mg/L
MW-18-4	1813498-03	Total Alkalinity as CaCO3	5/4/2018	170	Y	y	v		4.1	4.1	mg/L

SDG: 1813498

Analytical Method		SM-2320B									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1813498-03	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-18-4	1813498-03	Bicarbonate	5/4/2018	210	Y	y	v		5.0	5.0	mg/L
MW-18-5	1813498-02	Total Alkalinity as CaCO3	5/4/2018	130	Y	y	v		4.1	4.1	mg/L
MW-18-5	1813498-02	Bicarbonate	5/4/2018	140	Y	y	v		5.0	5.0	mg/L
MW-18-5	1813498-02	Carbonate	5/4/2018	8.9	Y	y	v		2.5	2.5	mg/L
MW-5	1813498-12	Bicarbonate	5/4/2018	170	Y	y	v		5.0	5.0	mg/L
MW-5	1813498-12	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-5	1813498-12	Total Alkalinity as CaCO3	5/4/2018	140	Y	y	v		4.1	4.1	mg/L
MW-6	1813498-11	Bicarbonate	5/4/2018	250	Y	y	v		10	10	mg/L
MW-6	1813498-11	Carbonate	5/4/2018	5	Y	n	u		5.0	5.0	mg/L
MW-6	1813498-11	Total Alkalinity as CaCO3	5/4/2018	210	Y	y	v		8.2	8.2	mg/L
MW-7	1813498-16	Total Alkalinity as CaCO3	5/4/2018	190	Y	y	v		4.1	4.1	mg/L
MW-7	1813498-16	Carbonate	5/4/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-7	1813498-16	Bicarbonate	5/4/2018	240	Y	y	v		5.0	5.0	mg/L
MW-8	1813498-14	Bicarbonate	5/7/2018	250	Y	y	v		5.0	5.0	mg/L
MW-8	1813498-14	Carbonate	5/7/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-8	1813498-14	Total Alkalinity as CaCO3	5/7/2018	210	Y	y	v		4.1	4.1	mg/L

LDC #: 42411

**EDD POPULATION COMPLETENESS WORKSHEET**

Date: 7/2/18  
 Page: 1 of 1  
 2<sup>nd</sup> Reviewer: JE

The LDC job number listed above was entered by AD  
 Entered from Body or Summary

	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 Reason
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	N	
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

July 9, 2018

SUBJECT: NASA JPL, 2Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on June 15, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

### LDC Project #42437:

<u>SDG #</u>	<u>Fraction</u>
1813360, 1813628	Volatiles, 1,4-Dioxane, Metals, 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

**EDD 90/10 (client select) LDC #42437 (Tidewater- Powell, OH / NASA JPL, 2Q2018)**

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (524.2)		1,4-Dioxane (8270C)		Metals (200.7 /200.8)		Alk. (2320B)		Cl,SO <sub>4</sub> NO <sub>3</sub> -N (300.0)		NO <sub>2</sub> -N (353.2)		O-PO <sub>4</sub> (365.1)		CLO <sub>4</sub> (314.0)		Cr(VI) (7196)		TDS (160.1)		pH (150.1)																
				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	W	S			
Matrix: Water/Soil																																								
A	1813360	06/15/18	07/09/18	9	0	1	0	8	0	8	0	8	0	8	0	-	-	8	0	8	0	8	0	8	0															
A	1813360	06/15/18	07/09/18	1	0	0	0	1	0	1	0	1	0	1	0	-	-	1	0	1	0	1	0	1	0															
B	1813628	06/15/18	07/09/18	14	0	1	0	12	0	13	0	13	0	13	0	1	0	13	0	12	0	13	0	13	0															
B	1813628	06/15/18	07/09/18	1	0	0	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0															
Total	T/PG			25	0	2	0	22	0	23	0	23	0	23	0	1	0	23	0	22	0	23	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs



## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** Volatiles

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813360

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-6-042518	1813360-01	Water	04/25/18
MW-17-5	1813360-02	Water	04/25/18
MW-17-4	1813360-03	Water	04/25/18
MW-17-3	1813360-04	Water	04/25/18
MW-17-2	1813360-05	Water	04/25/18
MW-17-1	1813360-06	Water	04/25/18
DUP-5-2Q18	1813360-07	Water	04/25/18
EB-6-042518	1813360-08	Water	04/25/18
MW-11-5**	1813360-09**	Water	04/25/18
MW-11-4	1813360-10	Water	04/25/18

\*\*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.

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
04/28/18	Bromomethane Methyl iodide	77.1 66.9	All samples in SDG 1813360	UJ (all non-detects) UJ (all non-detects)	P

## 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-6-042518 was identified as a trip blank. No contaminants were found.

Sample EB-6-042518 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**

Samples MW-17-2 and DUP-5-2Q18 were identified as field duplicates. No results were detected in any of the samples.

## **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 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 1813360**

Sample	Compound	Flag	A or P	Reason
TB-6-042518 MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 DUP-5-2Q18 EB-6-042518 MW-11-5** MW-11-4	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 1813360**

No Sample Data Qualified in this SDG

LDC #: 42437A1  
 SDG #: 1813360  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Level III/IV

Date: 6/20/18  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: KK

**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 <sup>2</sup> ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=8
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	D	LC9
X.	Field duplicates	ND	EB = 5 + 7
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-6-042518	1813360-01	Water	04/25/18
2	MW-17-5	1813360-02	Water	04/25/18
3	MW-17-4	1813360-03	Water	04/25/18
4	MW-17-3	1813360-04	Water	04/25/18
5	MW-17-2 D	1813360-05	Water	04/25/18
6	MW-17-1	1813360-06	Water	04/25/18
7	DUP-5-2Q18 D	1813360-07	Water	04/25/18
8	EB-6-042518	1813360-08	Water	04/25/18
9	MW-11-5**	1813360-09**	Water	04/25/18
10	MW-11-4	1813360-10	Water	04/25/18
11				
12				
13				

**VALIDATION FINDINGS CHECKLIST**

**Method:** Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
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"/>	
<b>II. GC/MS Instrument performance check</b>				
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"/>	
<b>III. Initial calibration</b>				
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"/>	
<b>IIIa. Initial Calibration Verification calibration</b>				
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"/>	
<b>IV. Continuing calibration</b>				
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"/>	
<b>V. Laboratory Blanks</b>				
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"/>	
<b>VI. Field blanks</b>				
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"/>	
<b>VII. Surrogate spikes</b>				
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"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



LDC #: 12/37A1

**VALIDATION FINDINGS CHECKLIST**

Page: 2 of 2  
 Reviewer: JK  
 2nd Reviewer: JK

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"/>	
<b>X. Field duplicates</b>				
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"/>	
<b>XI. Internal standards</b>				
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"/>	
<b>XII. Compound quantitation/CRQLs</b>				
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"/>	
<b>XIII. Target compound identification</b>				
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"/>	
<b>XIV. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>XV. Overall assessment of data</b>				
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)	3/27/18	V (1st internal standard)	1.798647	1.798647	1.760283	1.760283	6.339782	6.340
			S (2nd internal standard)	0.3328806	0.3328806	0.3476939	0.3476939	4.564263	4.564
			EE (3rd internal standard)	1.965132	1.9651323	1.884709	1.884709	8.916074	8.916
			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 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:

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

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

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	27APR62	4/28/18	V (1st internal standard)	1.760283	1.783284	1.783284	1.3	1.3
			S (2nd internal standard)	0.3476939	0.3552701	0.3552701	2.2	2.2
			EE (3rd internal standard)	1.884709	1.938855	1.938855	2.9	2.9
			HHH (4th internal standard)					
2	27APR32	4/27/18	V (1st internal standard)	1.760283	1.772268	1.772268	0.7	0.7
			S (2nd internal standard)	0.3476939	0.3785154	0.3785154	8.9	8.9
			EE (3rd internal standard)	1.884709	1.934207	1.934207	2.6	2.6
			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 #: 42437A1

**VALIDATION FINDINGS WORKSHEET**  
**Surrogate Results Verification**

Page: 1 of 1  
 Reviewer: Q  
 2nd reviewer: KK

**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: 9

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	10.22	102	102	0
Bromofluorobenzene	↓	10.75	102	102	
1,2-Dichlorobenzene-d4 <u>1,2-DCA</u>	↓	10.85	108	108	↓
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: B012136 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	25.000	NA	27.460	NA	110	110				
Trichloroethene	↓	↓	27.860	↓	111	111				
Benzene	↓	↓	25.250	↓	101	101				
Toluene	↓	↓	24.970	↓	99.9	99.9				
Chlorobenzene	↓	↓	25.590	↓	102	102				

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, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** 1,4-Dioxane

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813360

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
MW-17-4	1813360-03	Water	04/18/18

## 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:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270C

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 not 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**

A decafluorotriphenylphosphine (DFTPP) tune was performed 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 15.0%.

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 20.0%.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

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

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## **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**

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.

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, 2Q2018**  
**1,4-Dioxane - Data Qualification Summary - SDG 1813360**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**  
**1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 1813360**

No Sample Data Qualified in this SDG

LDC #: 42437A2c

# VALIDATION COMPLETENESS WORKSHEET

Date: 4/20/18

SDG #: 1813360

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS 1,4-Dioxane (EPA SW846 Method 8270C )

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	RSOS 1570. $r^2$ 10V $\leq$ 20%
IV.	Continuing calibration	A	COV $\leq$ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
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	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

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-17-4	1813360-03	Water	04/18/18
2				
3				
4				
5				
6				
7				
8				

Notes:


## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 27, 2018

**Parameters:** Metals

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813360

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-17-5	1813360-02	Water	04/25/18
MW-17-4	1813360-03	Water	04/25/18
MW-17-3	1813360-04	Water	04/25/18
MW-17-2	1813360-05	Water	04/25/18
MW-17-1	1813360-06	Water	04/25/18
DUP-5-2Q18	1813360-07	Water	04/25/18
EB-6-042518	1813360-08	Water	04/25/18
MW-11-5**	1813360-09**	Water	04/25/18
MW-11-4	1813360-10	Water	04/25/18
MW-17-5MS	1813360-02MS	Water	04/25/18
MW-17-5MSD	1813360-02MSD	Water	04/25/18
MW-17-5DUP	1813360-02DUP	Water	04/25/18

\*\*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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

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

## IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

## 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 Calcium	0.92300 ug/L 0.016848 mg/L	All samples in SDG 1813360

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-17-5	Chromium	2.1 ug/L	2.1U ug/L
MW-17-4	Chromium	1.8 ug/L	1.8U ug/L
MW-17-1	Chromium	0.59 ug/L	0.59U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
DUP-5-2Q18	Chromium	0.81 ug/L	0.81U ug/L
MW-11-5**	Chromium	3.1 ug/L	3.1U ug/L
EB-6-042518	Calcium	0.028 mg/L	0.028U mg/L

## VI. Field Blanks

Sample EB-6-042518 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-6-042518	Calcium Magnesium	0.028 0.020

## 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 with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-17-5MS/MSD (MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 DUP-5-2Q18 MW-11-5** MW-11-4)	Iron	133 (75-125)	136 (75-125)	J (all detects)	A
MW-17-5MS/MSD (EB-6-042518)	Iron	133 (75-125)	136 (75-125)	NA	-

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 methods. Percent recoveries (%R) were within QC limits.

## XI. Field Duplicates

Samples MW-17-2 and DUP-5-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-17-2	DUP-5-2Q18	
Iron	490 ug/L	640 ug/L	27
Chromium	0.50U ug/L	0.81 ug/L	47
Calcium	78 mg/L	80 mg/L	3
Magnesium	27 mg/L	27 mg/L	0
Sodium	21 mg/L	22 mg/L	5
Potassium	3.3 mg/L	3.3 mg/L	0

## 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 methods. No results were rejected in this SDG.

Due to MS/MSD %R, data were qualified as estimated in eight samples.

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. 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, 2Q2018  
Metals - Data Qualification Summary - SDG 1813360**

Sample	Analyte	Flag	A or P	Reason
MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 DUP-5-2Q18 MW-11-5** MW-11-4	Iron	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)

**NASA JPL, 2Q2018  
Metals - Laboratory Blank Data Qualification Summary - SDG 1813360**

Sample	Analyte	Modified Final Concentration	A or P
MW-17-5	Chromium	2.1U ug/L	A
MW-17-4	Chromium	1.8U ug/L	A
MW-17-1	Chromium	0.59U ug/L	A
DUP-5-2Q18	Chromium	0.81U ug/L	A
MW-11-5**	Chromium	3.1U ug/L	A
EB-6-042518	Calcium	0.028U mg/L	A

LDC #: 42437A4a  
 SDG #: 1813360  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Level III/IV

Date: 4/27/18  
 Page: 1 of 1  
 Reviewer: SB  
 2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

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	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = 7
VII.	Matrix Spike/Matrix Spike Duplicates	SW	(10,11)
VIII.	Duplicate sample analysis	A	12; As OK by difference
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(4,6)
XII.	Internal Standard (ICP-MS)	A	
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-17-5	1813360-02	Water	04/25/18
2	MW-17-4	1813360-03	Water	04/25/18
3	MW-17-3	1813360-04	Water	04/25/18
4	MW-17-2	1813360-05	Water	04/25/18
5	MW-17-1	1813360-06	Water	04/25/18
6	DUP-5-2Q18	1813360-07	Water	04/25/18
7	EB-6-042518	1813360-08	Water	04/25/18
8	MW-11-5**	1813360-09**	Water	04/25/18
9	MW-11-4	1813360-10	Water	04/25/18
10	MW-17-5MS	1813360-02MS	Water	04/25/18
11	MW-17-5MSD	1813360-02MSD	Water	04/25/18
12	MW-17-5DUP	1813360-02DUP	Water	04/25/18
13				
14				

Notes: \_\_\_\_\_

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

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
<b>II. ICP/MS Tune</b>				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
<b>III. Calibration</b>				
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?			✓	
<b>IV. Blanks</b>				
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.	✓			
<b>V. ICP Interference Check Sample</b>				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
<b>VI. Matrix spike/Matrix spike duplicates</b>				
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.	✓			
<b>VII. Laboratory control samples</b>				
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
<b>VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)</b>				
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?			/	
<b>IX. ICP Serial Dilution</b>				
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.		✓		
<b>X. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
<b>XI. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>XII. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>XIII. Field blanks</b>				
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 <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Level	1	2	5	6	8	7			
Cr	0.92300		4.615	2.1	1.8	0.59	0.81	3.1				
Ca (mg/L)	0.016848		0.08424						0.028			

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 #: 42437A4a  
SDG #: 19133e0

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

Page: 1 of 1  
Reviewer: JS  
2nd reviewer: KK

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

Analyte	Concentration Units ( )
Ca	0.028
Mg	0.020

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

Analyte	Concentration Units ( )

### VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates

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

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 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 (l limits)	Associated Samples	Qualifications
	(10, 11)	W	Fe	133 (75-125)	136 (75-125)		All	√det/A (1-6, 8, 9=Det, 7=ND)

Comments: \_\_\_\_\_

LDC#: 42437A4a

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

Page: 1 of 1  
Reviewer: B  
2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	4	6		
Iron	490	640	27	
Chromium	0.50U	0.81	47	
Calcium (mg/L)	78	80	3	
Magnesium (mg/L)	27	27	0	
Sodium (mg/L)	21	22	5	
Potassium (mg/L)	3.3	3.3	0	

V:\FIELD DUPLICATES\Field Duplicates\FD\_inorganic\2018\42437A4a.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)						
ICV	ICP (Initial calibration)	Fe	9.894 mg/L	10.000 mg/L	98.97%	98.97%	Y
ICV	ICP/MS (Initial calibration)	Cr	51.441 ug/L	50.000 ug/L	103.7%	103.7%	Y
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration)	Na	48.22 mg/L	50.000 mg/L	96.47%	96.47%	Y
CCV	ICP/MS (Continuing calibration)	As	98.430 ug/L	100.000 ug/L	98.47%	98.47%	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	Pb 207.977	107.979	± 0.1 AMU	NA	Y
	%RSD	24.0	5618.2	≤ 5% RSD	2.7 RSD	Y

Comments:

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**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	
IFB	ICP interference check	Fe	196.8 ug/L	200.00 ug/L	98.47.	98.47.	Y
LCS	Laboratory control sample	Fe	1.091 mg/L	1000.0 ug/L	1097.	1097.	Y
MS	Matrix spike	Pb	0.503 (SSR-SR) 94.839 ug/L - SR = 94.336 ug/L	100.00 ug/L	94.37.	94.37.	Y
MSD	Duplicate	Pb	97.569 ug/L	Found: 94.839 ug/L	2.847.	2.847.	
PDS	Post digestion spike	Mg	26.99 mg/L	SA - 10.000 SR - 16.743 mg/L	1027.	1027.	Y
	ICP serial dilution						

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LDC #: 4243741a  
 SDG #: 1813360

## VALIDATION FINDINGS WORKSHEET

### Sample Calculation Verification

Page: 1 of 1  
 Reviewer: UB  
 2nd reviewer: KK

**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".

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

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

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

Recalculation:

As From Raw Data = 7.366 ug/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 ( )	Calculated Concentration ( )	Acceptable (Y/N)
	8	Fe	1500 ug/L	1500 ug/L	Y
		As	7.4 ug/L	7.4 ug/L	Y
		K	1.3 mg/L	1.3 mg/L	Y

Note: \_\_\_\_\_



## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 27, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813360

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-17-5	1813360-02	Water	04/25/18
MW-17-4	1813360-03	Water	04/25/18
MW-17-3	1813360-04	Water	04/25/18
MW-17-2	1813360-05	Water	04/25/18
MW-17-1	1813360-06	Water	04/25/18
DUP-5-2Q18	1813360-07	Water	04/25/18
EB-6-042518	1813360-08	Water	04/25/18
MW-11-5**	1813360-09**	Water	04/25/18
MW-11-4	1813360-10	Water	04/25/18
MW-11-5MS	1813360-09MS	Water	04/25/18
MW-11-5MSD	1813360-09MSD	Water	04/25/18
MW-11-5DUP	1813360-09DUP	Water	04/25/18

\*\*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:

Alkalinity by Standard Method 2320B

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

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 DUP-5-2Q18 EB-6-042518 MW-11-5** MW-11-4	pH	8 days	48 hours	J (all detects)	P

## 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-6-042518 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-6-042518	Chloride Sulfate	0.24 0.28

## 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-17-2 and DUP-5-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-17-2	DUP-5-2Q18	
pH	7.99 units	8.02 units	0
Total dissolved solids	390 mg/L	370 mg/L	5
Chloride	12 mg/L	12 mg/L	0
Nitrate as N	0.34 mg/L	0.28 mg/L	19
Sulfate	37 mg/L	37 mg/L	0
Total alkalinity	290 mg/L	290 mg/L	0
Bicarbonate	360 mg/L	360 mg/L	0

## 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 technical holding time, 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, 2Q2018**  
**Wet Chemistry - Data Qualification Summary - SDG 1813360**

Sample	Analyte	Flag	A or P	Reason
MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 DUP-5-2Q18 EB-6-042518 MW-11-5** MW-11-4	pH	J (all detects)	P	Technical holding times

**NASA JPL, 2Q2018**  
**Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1813360**

No Sample Data Qualified in this SDG

LDC #: 42437A6  
 SDG #: 1813360  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Level III/IV

Date: 6/27/18  
 Page: 1 of 1  
 Reviewer: JB  
 2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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/SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	SW	EB=7
VI.	Matrix Spike/Matrix Spike Duplicates	A	(10,11)
VII.	Duplicate sample analysis	A	12 - NO <sub>3</sub> ok by difference
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(4,6)
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-17-5	1813360-02	Water	04/25/18
2	MW-17-4	1813360-03	Water	04/25/18
3	MW-17-3	1813360-04	Water	04/25/18
4	MW-17-2	1813360-05	Water	04/25/18
5	MW-17-1	1813360-06	Water	04/25/18
6	DUP-5-2Q18	1813360-07	Water	04/25/18
7	EB-6-042518	1813360-08	Water	04/25/18
8	MW-11-5**	1813360-09**	Water	04/25/18
9	MW-11-4	1813360-10	Water	04/25/18
10	MW-11-5MS	1813360-09MS	Water	04/25/18
11	MW-11-5MSD	1813360-09MSD	Water	04/25/18
12	MW-11-5DUP	1813360-09DUP	Water	04/25/18
13				
14				
15				

Notes: \_\_\_\_\_



Method: Inorganics (EPA Method *Sec 606*)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
<b>II. Calibration</b>				
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)	✓			
<b>III. Blanks</b>				
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.		✓		
<b>IV. Matrix spike/Matrix spike duplicates and Duplicates</b>				
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.	✓			
<b>V. Laboratory control samples</b>				
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?	✓			
<b>VI. Regional Quality Assurance and Quality Control</b>				
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
<b>VII. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
<b>VIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>IX. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>X. Field blanks</b>				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			





LDC #: 42437A4  
SDG #: 1813362

### VALIDATION FINDINGS WORKSHEET

#### Field Blanks

Page: 1 of 1  
Reviewer: KS  
2nd reviewer: KK

**METHOD:** Inorganics

Y N N/A    Were field blanks identified in this SDG?  
Y 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 ( )
Cl	0.24 mg/L
SO <sub>4</sub>	0.28 mg/L

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

Analyte	Concentration Units ( )

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	4	6		
pH (pH Units)	7.99	8.02	0	
TDS	390	370	5	
Chloride	12	12	0	
Nitrate as N	0.34	0.28	19	
Sulfate	37	37	0	
Total Alkalinity	290	290	0	
Bicarbonate	360	360	0	

LDC #: 42437Ae

**Validation Findings Worksheet  
Initial and Continuing Calibration Calculation Verification**

Page: 1 of       
 Reviewer: B  
 2nd Reviewer: VK

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO<sub>4</sub> was recalculated. Calibration date: 5/8/18

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 <sup>2</sup>	r or r <sup>2</sup>	
Initial calibration	ClO <sub>4</sub>	s1	2	0.0026	99.9871%	99.9882%	Y
		s2	4	0.0054			
		s3	6	0.0078			
		s4	10	0.0133			
		s5	20	0.0263			
Calibration verification	Cr <sup>6+</sup>	ICV	FOUND: 0.0480mg/L TRUE: 0.0500mg/L	96.7.	95.37.	Y	
Calibration verification	SO <sub>4</sub>	CCV	FOUND: 102.64 mg/L TRUE: 100.00 mg/L	103.7.	101.7.	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	Alk <sup>-</sup>	103.816 mg/L	100.00 mg/L	1047.	1047.	Y
MS	Matrix spike sample	NO <sub>2</sub>	<sup>ND</sup> (SSR-SR) 0.5793 mg/L	0.5262 mg/L	1107.	1107.	Y
MSD	Duplicate sample	NO <sub>2</sub>	0.5813 mg/L	Found: 0.5793 mg/L	0.3457.	0.2507.	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 Cl<sup>-</sup> reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$$Cl = \frac{\sqrt{4ac + b^2} - b}{2a}$$

Recalculation:

- a = 0.0003  
 b = 0.4856  
 c = Area - 0.0477  
 c/Area = 4.993

$Cl^- = 10.355 \text{ mg/L}$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	8	pH	8.34 pH units	8.34 pH units	Y
		TDS	190	190	Y
		Cl	10	10	Y
		Alk <sup>-</sup>	130	130	Y

Note: \_\_\_\_\_

## NASA JPL, 2Q2018 - LDC# 42437

SDG: 1813660

<b>Analytical Method</b>											
EPA-150.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	pH	5/3/2018	8.02	Y	y	v	J	0.05	0.05	pH Units
EB-6-042518	1813360-08	pH	5/3/2018	4.4	Y	y	v	J	0.05	0.05	pH Units
MW-11-4	1813360-10	pH	5/3/2018	8.72	Y	y	v	J	0.05	0.05	pH Units
MW-11-5	1813360-09	pH	5/3/2018	8.34	Y	y	v	J	0.05	0.05	pH Units
MW-17-1	1813360-06	pH	5/3/2018	7.77	Y	y	v	J	0.05	0.05	pH Units
MW-17-2	1813360-05	pH	5/3/2018	7.99	Y	y	v	J	0.05	0.05	pH Units
MW-17-3	1813360-04	pH	5/3/2018	8.02	Y	y	v	J	0.05	0.05	pH Units
MW-17-4	1813360-03	pH	5/3/2018	7.93	Y	y	v	J	0.05	0.05	pH Units
MW-17-5	1813360-02	pH	5/3/2018	8.13	Y	y	v	J	0.05	0.05	pH Units

<b>Analytical Method</b>											
EPA-160.1											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	Total Dissolved Solids @ 180 C	5/1/2018	370	Y	y	v		20	20	mg/L
EB-6-042518	1813360-08	Total Dissolved Solids @ 180 C	5/1/2018	6.7	Y	n	u		6.7	6.7	mg/L
MW-11-4	1813360-10	Total Dissolved Solids @ 180 C	5/1/2018	140	Y	y	v		10	10	mg/L
MW-11-5	1813360-09	Total Dissolved Solids @ 180 C	5/1/2018	190	Y	y	v		10	10	mg/L
MW-17-1	1813360-06	Total Dissolved Solids @ 180 C	5/1/2018	300	Y	y	v		20	20	mg/L
MW-17-2	1813360-05	Total Dissolved Solids @ 180 C	5/1/2018	390	Y	y	v		20	20	mg/L
MW-17-3	1813360-04	Total Dissolved Solids @ 180 C	5/1/2018	590	Y	y	v		33	33	mg/L
MW-17-4	1813360-03	Total Dissolved Solids @ 180 C	5/1/2018	440	Y	y	v		20	20	mg/L
MW-17-5	1813360-02	Total Dissolved Solids @ 180 C	5/1/2018	400	Y	y	v		20	20	mg/L

<b>Analytical Method</b>											
EPA-200.7											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	Total Recoverable Magnesium	5/8/2018	27	Y	y	v		0.050	0.019	mg/L

SDG: 1813660

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-5-2Q18	1813360-07	Total Recoverable Sodium	5/8/2018	22	Y	y	v		0.50	0.051	mg/L
DUP-5-2Q18	1813360-07	Total Recoverable Calcium	5/8/2018	80	Y	y	v		0.10	0.014	mg/L
DUP-5-2Q18	1813360-07	Total Recoverable Potassium	5/8/2018	3.3	Y	y	v		1.0	0.10	mg/L
DUP-5-2Q18	1813360-07	Total Recoverable Iron	5/8/2018	640	Y	y	v	J	50	30	ug/L
EB-6-042518	1813360-08	Total Recoverable Iron	5/8/2018	50	Y	n	u		50	30	ug/L
EB-6-042518	1813360-08	Total Recoverable Calcium	5/8/2018	0.028	Y	y	v j	U	0.10	0.014	mg/L
EB-6-042518	1813360-08	Total Recoverable Magnesium	5/8/2018	0.02	Y	y	v j		0.050	0.019	mg/L
EB-6-042518	1813360-08	Total Recoverable Sodium	5/8/2018	0.5	Y	n	u		0.50	0.051	mg/L
EB-6-042518	1813360-08	Total Recoverable Potassium	5/8/2018	1	Y	n	u		1.0	0.10	mg/L
MW-11-4	1813360-10	Total Recoverable Sodium	5/8/2018	26	Y	y	v		0.50	0.051	mg/L
MW-11-4	1813360-10	Total Recoverable Iron	5/8/2018	35	Y	y	v j	J	50	30	ug/L
MW-11-4	1813360-10	Total Recoverable Magnesium	5/8/2018	9.5	Y	y	v		0.050	0.019	mg/L
MW-11-4	1813360-10	Total Recoverable Potassium	5/8/2018	2	Y	y	v		1.0	0.10	mg/L
MW-11-4	1813360-10	Total Recoverable Calcium	5/8/2018	9.4	Y	y	v		0.10	0.014	mg/L
MW-11-5	1813360-09	Total Recoverable Iron	5/8/2018	1500	Y	y	v	J	50	30	ug/L
MW-11-5	1813360-09	Total Recoverable Potassium	5/8/2018	1.3	Y	y	v		1.0	0.10	mg/L
MW-11-5	1813360-09	Total Recoverable Magnesium	5/8/2018	2.4	Y	y	v		0.050	0.019	mg/L
MW-11-5	1813360-09	Total Recoverable Sodium	5/8/2018	49	Y	y	v		0.50	0.051	mg/L
MW-11-5	1813360-09	Total Recoverable Calcium	5/8/2018	20	Y	y	v		0.10	0.014	mg/L
MW-17-1	1813360-06	Total Recoverable Calcium	5/8/2018	57	Y	y	v		0.10	0.014	mg/L
MW-17-1	1813360-06	Total Recoverable Potassium	5/8/2018	2.8	Y	y	v		1.0	0.10	mg/L
MW-17-1	1813360-06	Total Recoverable Magnesium	5/8/2018	19	Y	y	v		0.050	0.019	mg/L
MW-17-1	1813360-06	Total Recoverable Iron	5/8/2018	53	Y	y	v	J	50	30	ug/L
MW-17-1	1813360-06	Total Recoverable Sodium	5/8/2018	19	Y	y	v		0.50	0.051	mg/L
MW-17-2	1813360-05	Total Recoverable Iron	5/8/2018	490	Y	y	v	J	50	30	ug/L

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<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-17-2	1813360-05	Total Recoverable Sodium	5/8/2018	21	Y	y	v		0.50	0.051	mg/L
MW-17-2	1813360-05	Total Recoverable Calcium	5/8/2018	78	Y	y	v		0.10	0.014	mg/L
MW-17-2	1813360-05	Total Recoverable Magnesium	5/8/2018	27	Y	y	v		0.050	0.019	mg/L
MW-17-2	1813360-05	Total Recoverable Potassium	5/8/2018	3.3	Y	y	v		1.0	0.10	mg/L
MW-17-3	1813360-04	Total Recoverable Magnesium	5/8/2018	45	Y	y	v		0.050	0.019	mg/L
MW-17-3	1813360-04	Total Recoverable Iron	5/8/2018	70	Y	y	v	J	50	30	ug/L
MW-17-3	1813360-04	Total Recoverable Sodium	5/8/2018	35	Y	y	v		0.50	0.051	mg/L
MW-17-3	1813360-04	Total Recoverable Potassium	5/8/2018	3.5	Y	y	v		1.0	0.10	mg/L
MW-17-3	1813360-04	Total Recoverable Calcium	5/8/2018	87	Y	y	v		0.10	0.014	mg/L
MW-17-4	1813360-03	Total Recoverable Magnesium	5/8/2018	21	Y	y	v		0.050	0.019	mg/L
MW-17-4	1813360-03	Total Recoverable Potassium	5/8/2018	2.3	Y	y	v		1.0	0.10	mg/L
MW-17-4	1813360-03	Total Recoverable Sodium	5/8/2018	49	Y	y	v		0.50	0.051	mg/L
MW-17-4	1813360-03	Total Recoverable Iron	5/8/2018	80	Y	y	v	J	50	30	ug/L
MW-17-4	1813360-03	Total Recoverable Calcium	5/8/2018	72	Y	y	v		0.10	0.014	mg/L
MW-17-5	1813360-02	Total Recoverable Potassium	5/8/2018	2.1	Y	y	v		1.0	0.10	mg/L
MW-17-5	1813360-02	Total Recoverable Sodium	5/8/2018	53	Y	y	v		0.50	0.051	mg/L
MW-17-5	1813360-02	Total Recoverable Magnesium	5/8/2018	17	Y	y	v		0.050	0.019	mg/L
MW-17-5	1813360-02	Total Recoverable Iron	5/8/2018	690	Y	y	v	J	50	30	ug/L
MW-17-5	1813360-02	Total Recoverable Calcium	5/8/2018	59	Y	y	v		0.10	0.014	mg/L

<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
DUP-5-2Q18	1813360-07	Total Recoverable Chromium	5/2/2018	0.81	Y	y	v j	U	3.0	0.50	ug/L
DUP-5-2Q18	1813360-07	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L

SDG: 1813660

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-6-042518	1813360-08	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
EB-6-042518	1813360-08	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
EB-6-042518	1813360-08	Total Recoverable Chromium	5/2/2018	3	Y	n	u		3.0	0.50	ug/L
MW-11-4	1813360-10	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
MW-11-4	1813360-10	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-11-4	1813360-10	Total Recoverable Chromium	5/2/2018	3	Y	n	u		3.0	0.50	ug/L
MW-11-5	1813360-09	Total Recoverable Lead	5/2/2018	0.9	Y	y	v j		1.0	0.10	ug/L
MW-11-5	1813360-09	Total Recoverable Chromium	5/2/2018	3.1	Y	y	v	U	3.0	0.50	ug/L
MW-11-5	1813360-09	Total Recoverable Arsenic	5/2/2018	7.4	Y	y	v		2.0	0.70	ug/L
MW-17-1	1813360-06	Total Recoverable Chromium	5/2/2018	0.59	Y	y	v j	U	3.0	0.50	ug/L
MW-17-1	1813360-06	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
MW-17-1	1813360-06	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-17-2	1813360-05	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
MW-17-2	1813360-05	Total Recoverable Chromium	5/2/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-2	1813360-05	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-17-3	1813360-04	Total Recoverable Arsenic	5/2/2018	2	Y	n	u		2.0	0.70	ug/L
MW-17-3	1813360-04	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
MW-17-3	1813360-04	Total Recoverable Chromium	5/2/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-4	1813360-03	Total Recoverable Arsenic	5/2/2018	1.3	Y	y	v j		2.0	0.70	ug/L
MW-17-4	1813360-03	Total Recoverable Chromium	5/2/2018	1.8	Y	y	v j	U	3.0	0.50	ug/L
MW-17-4	1813360-03	Total Recoverable Lead	5/2/2018	1	Y	n	u		1.0	0.10	ug/L
MW-17-5	1813360-02	Total Recoverable Arsenic	5/2/2018	2.4	Y	y	v		2.0	0.70	ug/L
MW-17-5	1813360-02	Total Recoverable Chromium	5/2/2018	2.1	Y	y	v j	U	3.0	0.50	ug/L
MW-17-5	1813360-02	Total Recoverable Lead	5/2/2018	0.5	Y	y	v j		1.0	0.10	ug/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
DUP-5-2Q18	1813360-07	Chloride	4/26/2018	12	Y	y	v		0.50	0.077	mg/L
DUP-5-2Q18	1813360-07	Nitrate as N	4/26/2018	0.28	Y	y	v		0.10	0.021	mg/L
DUP-5-2Q18	1813360-07	Sulfate	4/26/2018	37	Y	y	v		1.0	0.13	mg/L
EB-6-042518	1813360-08	Sulfate	4/26/2018	0.28	Y	y	v j		1.0	0.13	mg/L
EB-6-042518	1813360-08	Chloride	4/26/2018	0.24	Y	y	v j		0.50	0.077	mg/L
EB-6-042518	1813360-08	Nitrate as N	4/26/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-11-4	1813360-10	Nitrate as N	4/26/2018	0.1	Y	n	u		0.10	0.021	mg/L
MW-11-4	1813360-10	Sulfate	4/26/2018	1	Y	y	v		1.0	0.13	mg/L
MW-11-4	1813360-10	Chloride	4/26/2018	11	Y	y	v		0.50	0.077	mg/L
MW-11-5	1813360-09	Sulfate	4/26/2018	17	Y	y	v		1.0	0.13	mg/L
MW-11-5	1813360-09	Chloride	4/26/2018	10	Y	y	v		0.50	0.077	mg/L
MW-11-5	1813360-09	Nitrate as N	4/26/2018	0.048	Y	y	v j		0.10	0.021	mg/L
MW-17-1	1813360-06	Sulfate	4/26/2018	43	Y	y	v		1.0	0.13	mg/L
MW-17-1	1813360-06	Nitrate as N	4/26/2018	1.2	Y	y	v		0.10	0.021	mg/L
MW-17-1	1813360-06	Chloride	4/26/2018	13	Y	y	v		0.50	0.077	mg/L
MW-17-2	1813360-05	Sulfate	4/26/2018	37	Y	y	v		1.0	0.13	mg/L
MW-17-2	1813360-05	Nitrate as N	4/26/2018	0.34	Y	y	v		0.10	0.021	mg/L
MW-17-2	1813360-05	Chloride	4/26/2018	12	Y	y	v		0.50	0.077	mg/L
MW-17-3	1813360-04	Chloride	4/26/2018	89	Y	y	v		0.50	0.077	mg/L
MW-17-3	1813360-04	Nitrate as N	4/26/2018	9.7	Y	y	v		0.10	0.021	mg/L
MW-17-3	1813360-04	Sulfate	4/26/2018	130	Y	y	v		1.0	0.13	mg/L
MW-17-4	1813360-03	Nitrate as N	4/26/2018	7.6	Y	y	v		0.10	0.021	mg/L
MW-17-4	1813360-03	Chloride	4/26/2018	50	Y	y	v		0.50	0.077	mg/L
MW-17-4	1813360-03	Sulfate	4/26/2018	62	Y	y	v		1.0	0.13	mg/L
MW-17-5	1813360-02	Sulfate	4/26/2018	54	Y	y	v		1.0	0.13	mg/L

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<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-17-5	1813360-02	Nitrate as N	4/26/2018	6.4	Y	y	v		0.10	0.021	mg/L
MW-17-5	1813360-02	Chloride	4/26/2018	45	Y	y	v		0.50	0.077	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	Perchlorate	5/12/2018	4	Y	n	u		4.0	0.58	ug/L
EB-6-042518	1813360-08	Perchlorate	5/12/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-4	1813360-10	Perchlorate	5/12/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-5	1813360-09	Perchlorate	5/12/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-1	1813360-06	Perchlorate	5/12/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-2	1813360-05	Perchlorate	5/12/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-3	1813360-04	Perchlorate	5/11/2018	5	Y	y	v		4.0	0.58	ug/L
MW-17-4	1813360-03	Perchlorate	5/11/2018	4.2	Y	y	v		4.0	0.58	ug/L
MW-17-5	1813360-02	Perchlorate	5/11/2018	4.3	Y	y	v		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
EB-6-042518	1813360-08	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-11-4	1813360-10	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-11-5	1813360-09	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-17-1	1813360-06	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-17-2	1813360-05	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-17-3	1813360-04	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-17-4	1813360-03	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L
MW-17-5	1813360-02	Nitrite as N	4/26/2018	0.05	Y	n	u		0.050	0.010	mg/L

SDG: 1813660

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-5-2Q18	1813360-07	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-5-2Q18	1813360-07	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-5-2Q18	1813360-07	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-5-2Q18	1813360-07	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-5-2Q18	1813360-07	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-5-2Q18	1813360-07	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
DUP-5-2Q18	1813360-07	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-2Q18	1813360-07	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-5-2Q18	1813360-07	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
DUP-5-2Q18	1813360-07	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-5-2Q18	1813360-07	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-2Q18	1813360-07	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
DUP-5-2Q18	1813360-07	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
DUP-5-2Q18	1813360-07	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
DUP-5-2Q18	1813360-07	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-5-2Q18	1813360-07	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
DUP-5-2Q18	1813360-07	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-5-2Q18	1813360-07	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
DUP-5-2Q18	1813360-07	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-5-2Q18	1813360-07	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-2Q18	1813360-07	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-2Q18	1813360-07	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
DUP-5-2Q18	1813360-07	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
DUP-5-2Q18	1813360-07	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L



SDG: 1813660

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-5-2Q18	1813360-07	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-2Q18	1813360-07	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-2Q18	1813360-07	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-2Q18	1813360-07	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-5-2Q18	1813360-07	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-2Q18	1813360-07	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-5-2Q18	1813360-07	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-2Q18	1813360-07	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-5-2Q18	1813360-07	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-2Q18	1813360-07	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-2Q18	1813360-07	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-2Q18	1813360-07	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-2Q18	1813360-07	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-2Q18	1813360-07	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-2Q18	1813360-07	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-5-2Q18	1813360-07	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-5-2Q18	1813360-07	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-2Q18	1813360-07	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-2Q18	1813360-07	Bromobenzene	4/28/2018	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
DUP-5-2Q18	1813360-07	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-2Q18	1813360-07	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-2Q18	1813360-07	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-2Q18	1813360-07	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-2Q18	1813360-07	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-2Q18	1813360-07	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-2Q18	1813360-07	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-5-2Q18	1813360-07	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-2Q18	1813360-07	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-2Q18	1813360-07	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-2Q18	1813360-07	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-5-2Q18	1813360-07	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-2Q18	1813360-07	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-2Q18	1813360-07	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-2Q18	1813360-07	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-2Q18	1813360-07	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-2Q18	1813360-07	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-2Q18	1813360-07	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-2Q18	1813360-07	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-2Q18	1813360-07	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-2Q18	1813360-07	Isopropylbenzene	4/28/2018	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
DUP-5-2Q18	1813360-07	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-2Q18	1813360-07	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-2Q18	1813360-07	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-2Q18	1813360-07	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-2Q18	1813360-07	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-042518	1813360-08	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-042518	1813360-08	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-042518	1813360-08	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-042518	1813360-08	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-042518	1813360-08	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-042518	1813360-08	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-042518	1813360-08	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-042518	1813360-08	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-042518	1813360-08	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-042518	1813360-08	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-042518	1813360-08	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	trans-1,3-Dichloropropene	4/28/2018	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
EB-6-042518	1813360-08	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-042518	1813360-08	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-042518	1813360-08	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-042518	1813360-08	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-6-042518	1813360-08	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-6-042518	1813360-08	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-042518	1813360-08	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-042518	1813360-08	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
EB-6-042518	1813360-08	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-042518	1813360-08	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-042518	1813360-08	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-6-042518	1813360-08	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-042518	1813360-08	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-042518	1813360-08	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
EB-6-042518	1813360-08	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
EB-6-042518	1813360-08	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
EB-6-042518	1813360-08	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-042518	1813360-08	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
EB-6-042518	1813360-08	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
EB-6-042518	1813360-08	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
EB-6-042518	1813360-08	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
EB-6-042518	1813360-08	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
EB-6-042518	1813360-08	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	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-6-042518	1813360-08	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
EB-6-042518	1813360-08	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
EB-6-042518	1813360-08	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
EB-6-042518	1813360-08	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
EB-6-042518	1813360-08	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-6-042518	1813360-08	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
EB-6-042518	1813360-08	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
EB-6-042518	1813360-08	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
EB-6-042518	1813360-08	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-6-042518	1813360-08	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-042518	1813360-08	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-042518	1813360-08	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-042518	1813360-08	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
EB-6-042518	1813360-08	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-042518	1813360-08	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-042518	1813360-08	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-042518	1813360-08	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-042518	1813360-08	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-042518	1813360-08	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-042518	1813360-08	1,1,2,2-Tetrachloroethane	4/28/2018	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
EB-6-042518	1813360-08	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-042518	1813360-08	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-042518	1813360-08	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-042518	1813360-08	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-042518	1813360-08	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
EB-6-042518	1813360-08	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-042518	1813360-08	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-042518	1813360-08	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-042518	1813360-08	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-042518	1813360-08	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-042518	1813360-08	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1813360-10	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-4	1813360-10	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1813360-10	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-4	1813360-10	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-11-4	1813360-10	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-4	1813360-10	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-11-4	1813360-10	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1813360-10	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-4	1813360-10	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-4	1813360-10	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-4	1813360-10	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-11-4	1813360-10	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	1,2,4-Trimethylbenzene	4/28/2018	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-11-4	1813360-10	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1813360-10	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1813360-10	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1813360-10	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-4	1813360-10	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-4	1813360-10	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1813360-10	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-11-4	1813360-10	Styrene	4/28/2018	0.14	Y	y	v j		0.50	0.12	ug/L
MW-11-4	1813360-10	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-11-4	1813360-10	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-4	1813360-10	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1813360-10	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1813360-10	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-4	1813360-10	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-11-4	1813360-10	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1813360-10	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1813360-10	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1813360-10	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-11-4	1813360-10	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-4	1813360-10	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	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-11-4	1813360-10	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-11-4	1813360-10	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1813360-10	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-4	1813360-10	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-4	1813360-10	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1813360-10	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1813360-10	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1813360-10	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1813360-10	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1813360-10	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-11-4	1813360-10	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1813360-10	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1813360-10	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1813360-10	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-4	1813360-10	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1813360-10	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-4	1813360-10	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1813360-10	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	trans-1,3-Dichloropropene	4/28/2018	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
MW-11-4	1813360-10	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1813360-10	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1813360-10	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1813360-10	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1813360-10	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1813360-10	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1813360-10	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1813360-10	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1813360-10	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1813360-10	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1813360-10	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1813360-10	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1813360-10	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1813360-10	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1813360-10	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1813360-10	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1813360-09	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-5	1813360-09	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1813360-09	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-5	1813360-09	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	1,2-Dichloroethane	4/28/2018	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-11-5	1813360-09	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1813360-09	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1813360-09	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1813360-09	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-5	1813360-09	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-5	1813360-09	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1813360-09	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1813360-09	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-5	1813360-09	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1813360-09	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1813360-09	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-5	1813360-09	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1813360-09	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-5	1813360-09	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-5	1813360-09	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-5	1813360-09	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1813360-09	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1813360-09	Carbon tetrachloride	4/28/2018	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-11-5	1813360-09	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-5	1813360-09	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1813360-09	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-5	1813360-09	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-5	1813360-09	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-5	1813360-09	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-5	1813360-09	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-5	1813360-09	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-11-5	1813360-09	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-11-5	1813360-09	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-5	1813360-09	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-11-5	1813360-09	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-5	1813360-09	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-5	1813360-09	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-5	1813360-09	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-5	1813360-09	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-11-5	1813360-09	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1813360-09	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-11-5	1813360-09	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-5	1813360-09	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-11-5	1813360-09	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	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-11-5	1813360-09	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-11-5	1813360-09	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-11-5	1813360-09	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-11-5	1813360-09	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-5	1813360-09	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-5	1813360-09	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1813360-09	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-5	1813360-09	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-5	1813360-09	Styrene	4/28/2018	0.13	Y	y	v j		0.50	0.12	ug/L
MW-11-5	1813360-09	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1813360-09	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1813360-09	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-5	1813360-09	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1813360-09	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1813360-09	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1813360-09	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-5	1813360-09	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-11-5	1813360-09	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1813360-09	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1813360-09	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1813360-09	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-5	1813360-09	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1813360-09	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1813360-06	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	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-17-1	1813360-06	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-1	1813360-06	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-1	1813360-06	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-1	1813360-06	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-1	1813360-06	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-1	1813360-06	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1813360-06	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-17-1	1813360-06	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-1	1813360-06	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1813360-06	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-1	1813360-06	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-1	1813360-06	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-1	1813360-06	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1813360-06	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1813360-06	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-1	1813360-06	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1813360-06	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	Methacrylonitrile	4/28/2018	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-17-1	1813360-06	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1813360-06	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-1	1813360-06	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-17-1	1813360-06	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-17-1	1813360-06	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-17-1	1813360-06	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-1	1813360-06	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-17-1	1813360-06	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-1	1813360-06	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-17-1	1813360-06	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-1	1813360-06	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-17-1	1813360-06	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-1	1813360-06	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-1	1813360-06	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-1	1813360-06	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-1	1813360-06	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-17-1	1813360-06	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1813360-06	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-1	1813360-06	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-1	1813360-06	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1813360-06	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-1	1813360-06	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-1	1813360-06	n-Propylbenzene	4/28/2018	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-17-1	1813360-06	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1813360-06	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-1	1813360-06	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-1	1813360-06	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-1	1813360-06	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1813360-06	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-1	1813360-06	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-1	1813360-06	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-1	1813360-06	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1813360-06	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-1	1813360-06	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1813360-06	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-1	1813360-06	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1813360-06	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	cis-1,2-Dichloroethene	4/28/2018	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
MW-17-1	1813360-06	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1813360-06	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1813360-06	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1813360-06	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-1	1813360-06	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1813360-05	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1813360-05	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1813360-05	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1813360-05	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1813360-05	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-2	1813360-05	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-2	1813360-05	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1813360-05	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1813360-05	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-2	1813360-05	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-2	1813360-05	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-2	1813360-05	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	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	1813360-05	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-17-2	1813360-05	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-2	1813360-05	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1813360-05	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-2	1813360-05	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-17-2	1813360-05	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-2	1813360-05	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-17-2	1813360-05	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1813360-05	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-2	1813360-05	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1813360-05	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1813360-05	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-2	1813360-05	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1813360-05	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1813360-05	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-2	1813360-05	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-17-2	1813360-05	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1813360-05	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1813360-05	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-2	1813360-05	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1813360-05	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	1,3,5-Trimethylbenzene	4/28/2018	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-17-2	1813360-05	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-17-2	1813360-05	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-2	1813360-05	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1813360-05	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1813360-05	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1813360-05	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1813360-05	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1813360-05	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1813360-05	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1813360-05	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1813360-05	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-17-2	1813360-05	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1813360-05	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1813360-05	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-2	1813360-05	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1813360-05	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-17-2	1813360-05	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1813360-05	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1813360-05	Propionitrile	4/28/2018	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-17-2	1813360-05	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1813360-05	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1813360-05	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1813360-05	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1813360-05	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1813360-05	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1813360-05	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1813360-05	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-17-2	1813360-05	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1813360-04	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1813360-04	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1813360-04	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-3	1813360-04	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1813360-04	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-3	1813360-04	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1813360-04	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1813360-04	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1813360-04	Chloroform	4/28/2018	0.57	Y	y	v		0.50	0.14	ug/L
MW-17-3	1813360-04	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1813360-04	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1813360-04	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-3	1813360-04	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	Chlorobenzene	4/28/2018	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-17-3	1813360-04	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1813360-04	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1813360-04	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1813360-04	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-3	1813360-04	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1813360-04	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1813360-04	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1813360-04	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1813360-04	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1813360-04	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-3	1813360-04	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-3	1813360-04	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1813360-04	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1813360-04	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1813360-04	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-17-3	1813360-04	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-3	1813360-04	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-3	1813360-04	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1813360-04	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-17-3	1813360-04	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-3	1813360-04	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-3	1813360-04	Trichlorofluoromethane	4/28/2018	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-17-3	1813360-04	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-3	1813360-04	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-3	1813360-04	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1813360-04	1,1-Dichloroethane	4/28/2018	0.35	Y	y	v j		0.50	0.15	ug/L
MW-17-3	1813360-04	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-17-3	1813360-04	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-17-3	1813360-04	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-3	1813360-04	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-17-3	1813360-04	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-3	1813360-04	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-17-3	1813360-04	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-17-3	1813360-04	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-17-3	1813360-04	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-3	1813360-04	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1813360-04	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-3	1813360-04	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1813360-04	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-17-3	1813360-04	Trichloroethene	4/28/2018	3.2	Y	y	v		0.50	0.19	ug/L
MW-17-3	1813360-04	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1813360-04	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1813360-04	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1813360-04	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1813360-04	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1813360-04	Ethylbenzene	4/28/2018	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-17-3	1813360-04	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1813360-04	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1813360-04	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1813360-04	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1813360-04	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1813360-04	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1813360-04	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1813360-04	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1813360-04	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1813360-04	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	Tetrachloroethene	4/28/2018	0.82	Y	y	v		0.50	0.23	ug/L
MW-17-3	1813360-04	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1813360-04	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1813360-04	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1813360-04	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1813360-04	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1813360-04	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1813360-03	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1813360-03	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	1,3-Dichlorobenzene	4/28/2018	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
MW-17-4	1813360-03	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1813360-03	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1813360-03	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1813360-03	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1813360-03	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-4	1813360-03	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1813360-03	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1813360-03	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-4	1813360-03	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1813360-03	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-4	1813360-03	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1813360-03	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1813360-03	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	Chloroform	4/28/2018	0.41	Y	y	v j		0.50	0.14	ug/L
MW-17-4	1813360-03	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1813360-03	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-4	1813360-03	Dibromochloromethane	4/28/2018	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-17-4	1813360-03	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-4	1813360-03	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1813360-03	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-17-4	1813360-03	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-4	1813360-03	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-4	1813360-03	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1813360-03	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-17-4	1813360-03	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-4	1813360-03	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-4	1813360-03	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-4	1813360-03	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-4	1813360-03	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-4	1813360-03	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-17-4	1813360-03	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-17-4	1813360-03	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-17-4	1813360-03	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-17-4	1813360-03	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-4	1813360-03	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-17-4	1813360-03	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-17-4	1813360-03	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-17-4	1813360-03	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-4	1813360-03	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1813360-03	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1813360-03	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1813360-03	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	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-17-4	1813360-03	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1813360-03	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-4	1813360-03	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1813360-03	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1813360-03	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1813360-03	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1813360-03	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1813360-03	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	Tetrachloroethene	4/28/2018	0.33	Y	y	v j		0.50	0.23	ug/L
MW-17-4	1813360-03	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1813360-03	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1813360-03	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-4	1813360-03	Trichloroethene	4/28/2018	0.59	Y	y	v		0.50	0.19	ug/L
MW-17-4	1813360-03	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1813360-03	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1813360-03	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1813360-03	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1813360-03	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1813360-02	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
MW-17-5	1813360-02	o-Xylene	4/28/2018	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
MW-17-5	1813360-02	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-5	1813360-02	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
MW-17-5	1813360-02	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
MW-17-5	1813360-02	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
MW-17-5	1813360-02	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-5	1813360-02	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-5	1813360-02	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-5	1813360-02	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
MW-17-5	1813360-02	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
MW-17-5	1813360-02	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1813360-02	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-5	1813360-02	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1813360-02	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1813360-02	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1813360-02	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-5	1813360-02	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1813360-02	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-5	1813360-02	Naphthalene	4/28/2018	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
MW-17-5	1813360-02	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-5	1813360-02	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-5	1813360-02	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-5	1813360-02	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-5	1813360-02	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	Tetrachloroethene	4/28/2018	0.43	Y	y	v j		0.50	0.23	ug/L
MW-17-5	1813360-02	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-5	1813360-02	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1813360-02	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-5	1813360-02	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-5	1813360-02	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-5	1813360-02	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-5	1813360-02	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-5	1813360-02	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-5	1813360-02	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-5	1813360-02	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1813360-02	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-5	1813360-02	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	Dichlorodifluoromethane	4/28/2018	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-17-5	1813360-02	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-5	1813360-02	Chloroform	4/28/2018	0.49	Y	y	v j		0.50	0.14	ug/L
MW-17-5	1813360-02	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-5	1813360-02	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-5	1813360-02	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
MW-17-5	1813360-02	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-5	1813360-02	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-5	1813360-02	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-5	1813360-02	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-5	1813360-02	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-5	1813360-02	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	ug/L
MW-17-5	1813360-02	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1813360-02	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-5	1813360-02	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-5	1813360-02	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
MW-17-5	1813360-02	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1813360-02	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1813360-02	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-5	1813360-02	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1813360-02	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1813360-02	Trichloroethene	4/28/2018	0.85	Y	y	v		0.50	0.19	ug/L
MW-17-5	1813360-02	Trichlorofluoromethane	4/28/2018	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-17-5	1813360-02	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1813360-02	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1813360-02	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1813360-02	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
TB-6-042518	1813360-01	trans-1,4-Dichloro-2-butene	4/28/2018	5	Y	n	u		5.0	1.8	ug/L
TB-6-042518	1813360-01	Trichlorofluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	1,2,3-Trichloropropane	4/28/2018	1	Y	n	u		1.0	0.78	ug/L
TB-6-042518	1813360-01	1,1,2-Trichloro-1,2,2-trifluoroethane	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-042518	1813360-01	1,2,4-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	1,3,5-Trimethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	Vinyl chloride	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-042518	1813360-01	Acetone	4/28/2018	10	Y	n	u		10	6.6	ug/L
TB-6-042518	1813360-01	Acrylonitrile	4/28/2018	5	Y	n	u		5.0	1.5	ug/L
TB-6-042518	1813360-01	Allyl chloride	4/28/2018	5	Y	n	u		5.0	0.47	ug/L
TB-6-042518	1813360-01	t-Amyl Methyl ether	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-042518	1813360-01	Diethyl ether	4/28/2018	2	Y	n	u		2.0	0.33	ug/L
TB-6-042518	1813360-01	Carbon disulfide	4/28/2018	1	Y	n	u		1.0	0.48	ug/L
TB-6-042518	1813360-01	Ethyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-6-042518	1813360-01	2-Hexanone	4/28/2018	10	Y	n	u		10	5.0	ug/L
TB-6-042518	1813360-01	Ethyl methacrylate	4/28/2018	4	Y	n	u		4.0	1.3	ug/L
TB-6-042518	1813360-01	Methacrylonitrile	4/28/2018	10	Y	n	u		10	2.3	ug/L
TB-6-042518	1813360-01	Trichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-042518	1813360-01	Hexachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-042518	1813360-01	Methylene chloride	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-042518	1813360-01	t-Butyl alcohol	4/28/2018	10	Y	n	u		10	9.4	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-6-042518	1813360-01	Methyl ethyl ketone	4/28/2018	10	Y	n	u		10	3.3	ug/L
TB-6-042518	1813360-01	1,3-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-042518	1813360-01	2,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-042518	1813360-01	1,1-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-042518	1813360-01	cis-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	trans-1,3-Dichloropropene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-042518	1813360-01	Ethylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	Hexachlorobutadiene	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-042518	1813360-01	Isopropylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	p-Isopropyltoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	Naphthalene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-042518	1813360-01	Methyl t-butyl ether	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	1,1,2-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-042518	1813360-01	n-Propylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-042518	1813360-01	Styrene	4/28/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-042518	1813360-01	1,1,1,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-042518	1813360-01	1,1,2,2-Tetrachloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	Tetrachloroethene	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-042518	1813360-01	Toluene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	1,2,3-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-042518	1813360-01	1,2,4-Trichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	1,1,1-Trichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-042518	1813360-01	Bromoform	4/28/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-6-042518	1813360-01	1,1-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	Methyl iodide	4/28/2018	2	Y	n	u	UJ	2.0	1.1	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-6-042518	1813360-01	Chloroform	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	Bromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-042518	1813360-01	cis-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-042518	1813360-01	1,1-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-042518	1813360-01	1,2-Dichloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	Chloromethane	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-042518	1813360-01	Chlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	4-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-6-042518	1813360-01	Chloroethane	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	Dichlorodifluoromethane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	1,4-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	Dibromochloromethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-042518	1813360-01	1,2-Dibromo-3-chloropropane	4/28/2018	1	Y	n	u		1.0	0.89	ug/L
TB-6-042518	1813360-01	1,2-Dibromoethane	4/28/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-042518	1813360-01	Dibromomethane	4/28/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-042518	1813360-01	1,2-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-042518	1813360-01	1,3-Dichlorobenzene	4/28/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-042518	1813360-01	2-Chlorotoluene	4/28/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-042518	1813360-01	1,2-Dichloropropane	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	Methyl isobutyl ketone	4/28/2018	10	Y	n	u		10	2.4	ug/L
TB-6-042518	1813360-01	Methyl methacrylate	4/28/2018	5	Y	n	u		5.0	1.2	ug/L
TB-6-042518	1813360-01	Pentachloroethane	4/28/2018	2	Y	n	u		2.0	0.63	ug/L
TB-6-042518	1813360-01	Propionitrile	4/28/2018	20	Y	n	u		20	6.2	ug/L
TB-6-042518	1813360-01	Tetrahydrofuran	4/28/2018	20	Y	n	u		20	5.2	ug/L
TB-6-042518	1813360-01	p- & m-Xylenes	4/28/2018	0.5	Y	n	u		0.50	0.34	ug/L

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<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
TB-6-042518	1813360-01	trans-1,2-Dichloroethene	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	Bromobenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	Bromodichloromethane	4/28/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-042518	1813360-01	o-Xylene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-042518	1813360-01	Bromomethane	4/28/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-6-042518	1813360-01	n-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-042518	1813360-01	sec-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-042518	1813360-01	tert-Butylbenzene	4/28/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-042518	1813360-01	Carbon tetrachloride	4/28/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-042518	1813360-01	Benzene	4/28/2018	0.5	Y	n	u		0.50	0.11	ug/L

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
DUP-5-2Q18	1813360-07	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-6-042518	1813360-08	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-4	1813360-10	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-5	1813360-09	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-1	1813360-06	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-2	1813360-05	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-3	1813360-04	Hexavalent Chromium	4/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-4	1813360-03	Hexavalent Chromium	4/26/2018	0.0017	Y	y	v j		0.0020	0.0007	mg/L
MW-17-5	1813360-02	Hexavalent Chromium	4/26/2018	0.0013	Y	y	v j		0.0020	0.0007	mg/L

<b>Analytical Method</b>		EPA-8270D									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-17-4	1813360-03	1,4-Dioxane	5/4/2018	1	Y	n	u		1.0	0.10	ug/L



SDG: 1813660

Analytical Method		SM-2320B									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-5-2Q18	1813360-07	Bicarbonate	5/3/2018	360	Y	y	v		5.0	5.0	mg/L
DUP-5-2Q18	1813360-07	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
DUP-5-2Q18	1813360-07	Total Alkalinity as CaCO3	5/3/2018	290	Y	y	v		4.1	4.1	mg/L
EB-6-042518	1813360-08	Bicarbonate	5/3/2018	5	Y	n	u		5.0	5.0	mg/L
EB-6-042518	1813360-08	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
EB-6-042518	1813360-08	Total Alkalinity as CaCO3	5/3/2018	4.1	Y	n	u		4.1	4.1	mg/L
MW-11-4	1813360-10	Bicarbonate	5/3/2018	110	Y	y	v		5.0	5.0	mg/L
MW-11-4	1813360-10	Carbonate	5/3/2018	9.9	Y	y	v		2.5	2.5	mg/L
MW-11-4	1813360-10	Total Alkalinity as CaCO3	5/3/2018	100	Y	y	v		4.1	4.1	mg/L
MW-11-5	1813360-09	Total Alkalinity as CaCO3	5/3/2018	130	Y	y	v		4.1	4.1	mg/L
MW-11-5	1813360-09	Carbonate	5/3/2018	4.9	Y	y	v		2.5	2.5	mg/L
MW-11-5	1813360-09	Bicarbonate	5/3/2018	150	Y	y	v		5.0	5.0	mg/L
MW-17-1	1813360-06	Bicarbonate	5/3/2018	220	Y	y	v		5.0	5.0	mg/L
MW-17-1	1813360-06	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-17-1	1813360-06	Total Alkalinity as CaCO3	5/3/2018	180	Y	y	v		4.1	4.1	mg/L
MW-17-2	1813360-05	Bicarbonate	5/3/2018	360	Y	y	v		5.0	5.0	mg/L
MW-17-2	1813360-05	Total Alkalinity as CaCO3	5/3/2018	290	Y	y	v		4.1	4.1	mg/L
MW-17-2	1813360-05	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-17-3	1813360-04	Bicarbonate	5/3/2018	230	Y	y	v		5.0	5.0	mg/L
MW-17-3	1813360-04	Total Alkalinity as CaCO3	5/3/2018	190	Y	y	v		4.1	4.1	mg/L
MW-17-3	1813360-04	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-17-4	1813360-03	Total Alkalinity as CaCO3	5/3/2018	200	Y	y	v		4.1	4.1	mg/L
MW-17-4	1813360-03	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-17-4	1813360-03	Bicarbonate	5/3/2018	240	Y	y	v		5.0	5.0	mg/L
MW-17-5	1813360-02	Bicarbonate	5/3/2018	220	Y	y	v		5.0	5.0	mg/L

SDG: 1813660

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<b>Analytical Method</b>											
SM-2320B											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-17-5	1813360-02	Carbonate	5/3/2018	2.5	Y	n	u		2.5	2.5	mg/L
MW-17-5	1813360-02	Total Alkalinity as CaCO3	5/3/2018	180	Y	y	v		4.1	4.1	mg/L

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** Volatiles

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813628

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-8-042718	1813628-01	Water	04/27/18
MW-20-5	1813628-02	Water	04/27/18
MW-20-4	1813628-03	Water	04/27/18
MW-20-3**	1813628-04**	Water	04/27/18
MW-20-2	1813628-05	Water	04/27/18
Dup-7-2Q18	1813628-06	Water	04/27/18
EB-8-042718	1813628-07	Water	04/27/18
MW-12-3	1813628-08	Water	04/27/18
DUP-8-2Q18	1813628-09	Water	04/27/18
MW-12-2	1813628-10	Water	04/27/18
MW-12-1	1813628-11	Water	04/27/18
MW-9	1813628-12	Water	04/27/18
MW-1	1813628-13	Water	04/27/18
MW-16	1813628-14	Water	04/27/18
MW-10	1813628-15	Water	04/27/18
MW-9MS	1813628-12MS	Water	04/27/18
MW-9MSD	1813628-12MSD	Water	04/27/18
MW-1MS	1813628-13MS	Water	04/27/18
MW-1MSD	1813628-13MSD	Water	04/27/18

\*\*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
05/01/18	Bromomethane trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	47.4 37.7 37.3 68.5	All samples in SDG 1813628	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

## 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-8-042718 was identified as a trip blank. No contaminants were found.

Sample EB-8-042718 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Compound	Concentration (ug/L)
EB-8-042718	Carbon disulfide	0.49

### 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-20-2 and Dup-7-2Q18 and samples MW-12-3 and DUP-8-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-20-2	Dup-7-2Q18	
Chloroform	0.15	0.23	42
Trichloroethene	0.55	0.85	43
Carbon disulfide	0.84	0.66	24

Compound	Concentration (ug/L)		RPD
	MW-12-3	DUP-8-2Q18	
Chloroform	0.56	0.49	13

## **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 fifteen 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, 2Q2018**  
**Volatiles - Data Qualification Summary - SDG 1813628**

Sample	Compound	Flag	A or P	Reason
TB-8-042718 MW-20-5 MW-20-4 MW-20-3** MW-20-2 Dup-7-2Q18 EB-8-042718 MW-12-3 DUP-8-2Q18 MW-12-2 MW-12-1 MW-9 MW-1 MW-16 MW-10	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)	P	Continuing calibration (%D)

**NASA JPL, 2Q2018**  
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 1813628**

No Sample Data Qualified in this SDG



LDC #: 42437B1  
 SDG #: 1813628  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**

Level III/IV

Date: 4/27/18  
 Page: 1 of 2  
 Reviewer: JG  
 2nd Reviewer: KK

**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 <sup>2</sup> ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	TB = 1. EB = 7
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 5+6. 8+9
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-8-042718	1813628-01	Water	04/27/18
2	MW-20-5	1813628-02	Water	04/27/18
3	MW-20-4	1813628-03	Water	04/27/18
4	MW-20-3**	1813628-04**	Water	04/27/18
5	MW-20-2	1813628-05	Water	04/27/18
6	Dup-7-2Q18	1813628-06	Water	04/27/18
7	EB-8-042718	1813628-07	Water	04/27/18
8	MW-12-3	1813628-08	Water	04/27/18
9	DUP-8-2Q18	1813628-09	Water	04/27/18
10	MW-12-2	1813628-10	Water	04/27/18
11	MW-12-1	1813628-11	Water	04/27/18
12	MW-9	1813628-12	Water	04/27/18
13	MW-1	1813628-13	Water	04/27/18

LDC #: 42437B1  
 SDG #: 1813628  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Level III/IV

Date: 6/29/18  
 Page: 2 of 2  
 Reviewer: [Signature]  
 2nd Reviewer: KR

**METHOD:** GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-16	1813628-14	Water	04/27/18
15	MW-10	1813628-15	Water	04/27/18
16	MW-9MS	1813628-12MS	Water	04/27/18
17	MW-9MSD	1813628-12MSD	Water	04/27/18
18	MW-1MS	1813628-13MS	Water	04/27/18
19	MW-1MSD	1813628-13MSD	Water	04/27/18
20				
21				
22				
23				
24				

Notes:


LDC #: 12437B1

## VALIDATION FINDINGS CHECKLIST

Page: 1 of 2  
Reviewer: Q  
2nd Reviewer: KK**Method:** Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
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"/>	
<b>II. GC/MS Instrument performance check</b>				
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"/>	
<b>III. Initial calibration</b>				
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"/>	
<b>IIIa. Initial Calibration Verification calibration</b>				
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"/>	
<b>IV. Continuing calibration</b>				
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"/>	
<b>V. Laboratory Blanks</b>				
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"/>	
<b>VI. Field blanks</b>				
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"/>	
<b>VII. Surrogate spikes</b>				
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"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
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"/>	
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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"/>	
<b>X. Field duplicates</b>				
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"/>	
<b>XI. Internal standards</b>				
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"/>	
<b>XII. Compound quantitation/CRQLs</b>				
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"/>	
<b>XIII. Target compound identification</b>				
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"/>	
<b>XIV. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>XV. Overall assessment of data</b>				
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	VVV. Bromobenzene	WWW. Ethanol	WWWW. 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 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/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

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

#	Date	Standard ID	Compound	Finding %D (Limit: <30.0%)	Associated Samples	Qualifications
	<u>5/1/18</u>	<u>01MAY02</u>	<u>B</u>	<u>47.4</u>	<u>All (NO)</u>	<u>[Signature]</u>
		<u>↓ 3</u>	<u>YYYY</u>	<u>37.7</u>		<u>↓</u>
			<u>Methyl iodide</u>	<u>37.3</u>		
			<u>2222</u>	<u>68.5</u>		

LDC #: A2437B1  
SDG #: \_\_\_\_\_

# VALIDATION FINDINGS WORKSHEET

## Field Blanks

Page: 1 of 1  
Reviewer: Q  
2nd reviewer: KK

METHOD: GC/MS VOA (EPA SW-846 Method <sup>524.2</sup> 8260B)

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

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

Compound	Concentration Units ( <u>ug/l</u> )
<u>7</u>	<u>0.49</u>

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

Compound	Concentration Units ( )

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

Compound	Concentration Units ( )

LDC#: 12437B1

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	5	6	
K	0.15	0.23	42
S	0.55	0.85	43
G	0.84	0.66	24

Compound	Concentration (ug/L)		RPD
	8	9	
K	0.56	0.49	13



### 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)	3/27/18	V (1st internal standard)	1.798647	1.798647	1.760283	1.760283	6.339782	6.340
			S (2nd internal standard)	0.3328806	0.3328806	0.3476939	0.3476939	4.564263	4.564
			EE (3rd internal standard)	1.965132	1.9651323	1.884709	1.884709	8.916074	8.916
			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 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:

% Difference = 100 \* (ave. RRF - RRF)/ave. RRF  
RRF = (A<sub>x</sub>)(C<sub>is</sub>)/(A<sub>is</sub>)(C<sub>x</sub>)

Where: ave. RRF = initial calibration average RRF  
RRF = continuing calibration RRF  
A<sub>x</sub> = Area of compound,                      A<sub>is</sub> = Area of associated internal standard  
C<sub>x</sub> = Concentration of compound,            C<sub>is</sub> = 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	01MAY02	5/1/18	V (1st internal standard)	1.760283	1.702222	1.702222	3.3	3.3
			S (2nd internal standard)	0.3476939	0.3454882	0.3454882	0.6	0.6
			EE (3rd internal standard)	1.884709	1.903575	1.903575	1.0	1.0
			HHH (4th internal standard)					
2			V (1st internal standard)					
			S (2nd internal standard)					
			EE (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.

LDC #: 12437B1

### VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1  
Reviewer: Q  
2nd reviewer: KK

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: A

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.99	99.9	99.9	0
Bromofluorobenzene	↓	10.44	104	104	↓
1,2-Dichlorobenzene-d4 <u>1,2-DCA</u>	↓	10.26	103	103	↓
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 + MSDC)

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 16/17

Compound	Spike Added (µg)		Sample Concentration (µg/L)	Spiked Sample Concentration (µg/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.00	25.00	ND	31.570	27.870	126	126	111	111	12.6	12.6
Trichloroethene	↓	↓	↓	30.270	27.280	121	121	109	109	10.3	10.3
Benzene	↓	↓	↓	28.930	26.410	116	116	106	106	9.11	9.11
Toluene	↓	↓	↓	29.870	27.300	119	119	109	109	8.99	8.99
Chlorobenzene	↓	↓	↓	30.890	28.810	124	124	115	115	6.97	6.97

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.

## 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:

$\% \text{ Recovery} = 100 * \text{SSC}/\text{SA}$

Where: SSC = Spiked sample concentration  
SA = Spike added

$\text{RPD} = | \text{LCSC} - \text{LCSDC} | * 2 / (\text{LCSC} + \text{LCSDC})$

LCSC = Laboratory control sample concentration    LCSDC = Laboratory control sample duplicate concentration

LCS ID: B012389-ES

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>25.00</u>	<u>NA</u>	<u>29.110</u>	<u>NA</u>	<u>116</u>	<u>116</u>				
Trichloroethene	↓	↓	<u>28.860</u>	↓	<u>115</u>	<u>115</u>				
Benzene	↓	↓	<u>26.880</u>	↓	<u>108</u>	<u>108</u>				
Toluene	↓	↓	<u>28.190</u>	↓	<u>114</u>	<u>114</u>				
Chlorobenzene	↓	↓	<u>27.880</u>	↓	<u>112</u>	<u>112</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, 2Q2018

**LDC Report Date:** June 21, 2018

**Parameters:** 1,4-Dioxane

**Validation Level:** Level III

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813628

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
MW-16	1813628-14	Water	04/27/18

## 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:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270C

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 not 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**

A decafluorotriphenylphosphine (DFTPP) tune was performed 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 15.0%.

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 20.0%.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

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

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## **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**

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.

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, 2Q2018**  
**1,4-Dioxane - Data Qualification Summary - SDG 1813628**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**  
**1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 1813628**

No Sample Data Qualified in this SDG

**METHOD:** GC/MS 1,4-Dioxane (EPA SW846 Method 8270C )

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 ≤ 15%. Y <sup>2</sup> 1 CV ≤ 20%
IV.	Continuing calibration	A	CCV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	ICS
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 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-16	1813628-14	Water	04/27/18
2				
3				
4				
5				
6				
7				
8				

Notes:


## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 27, 2018

**Parameters:** Metals

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813628

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1813628-02	Water	04/27/18
MW-20-4	1813628-03	Water	04/27/18
MW-20-3**	1813628-04**	Water	04/27/18
MW-20-2	1813628-05	Water	04/27/18
Dup-7-2Q18	1813628-06	Water	04/27/18
EB-8-042718	1813628-07	Water	04/27/18
MW-12-3	1813628-08	Water	04/27/18
DUP-8-2Q18	1813628-09	Water	04/27/18
MW-12-2	1813628-10	Water	04/27/18
MW-12-1	1813628-11	Water	04/27/18
MW-9	1813628-12	Water	04/27/18
MW-1	1813628-13	Water	04/27/18
MW-10	1813628-15	Water	04/27/18
MW-9MS	1813628-12MS	Water	04/27/18
MW-9MSD	1813628-12MSD	Water	04/27/18
MW-9DUP	1813628-12DUP	Water	04/27/18
MW-1MS	1813628-13MS	Water	04/27/18
MW-1MSD	1813628-13MSD	Water	04/27/18
MW-1DUP	1813628-13DUP	Water	04/27/18

\*\*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:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

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 methods.

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

## IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

## 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
ICB/CCB	Arsenic	0.70400 ug/L	MW-1
ICB/CCB	Arsenic Calcium Magnesium	0.91500 ug/L 0.029812 mg/L 0.030402 mg/L	MW-12-1 MW-10
ICB/CCB	Calcium Magnesium	0.018394 mg/L 0.022748 mg/L	MW-20-5 MW-9
ICB/CCB	Calcium	0.018473 mg/L	MW-20-4 MW-20-3** MW-20-2 Dup-7-2Q18 EB-8-042718 MW-12-3 DUP-8-2Q18 MW-12-2

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-1	Arsenic	1.3 ug/L	1.3U ug/L
EB-8-042718	Calcium	0.020 mg/L	0.020U mg/L

## VI. Field Blanks

Sample EB-8-042718 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-8-042718	Chromium Calcium Sodium	0.76 ug/L 0.020 mg/L 0.060 mg/L

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-9MS/MSD, no data were qualified for Calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. 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 methods. Percent recoveries (%R) were within QC limits.



## XI. Field Duplicates

Samples MW-20-2 and Dup-7-2Q18 and samples MW-12-3 and DUP-8-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-20-2	Dup-7-2Q18	
Iron	160 ug/L	77 ug/L	70
Chromium	0.64 ug/L	0.50U ug/L	25
Calcium	75 mg/L	69 mg/L	8
Magnesium	30 mg/L	28 mg/L	7
Sodium	22 mg/L	21 mg/L	5
Potassium	3.2 mg/L	2.9 mg/L	10

Analyte	Concentration		RPD
	MW-12-3	DUP-8-2Q18	
Iron	240 ug/L	240 ug/L	0
Arsenic	0.98 ug/L	0.70U ug/L	33
Chromium	0.50U ug/L	0.53 ug/L	6
Calcium	42 mg/L	41 mg/L	2
Magnesium	15 mg/L	15 mg/L	0
Sodium	26 mg/L	25 mg/L	4
Potassium	2.9 mg/L	2.9 mg/L	0

## 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 methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in two 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, 2Q2018**  
**Metals - Data Qualification Summary - SDG 1813628**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2018**  
**Metals - Laboratory Blank Data Qualification Summary - SDG 1813628**

Sample	Analyte	Modified Final Concentration	A or P
MW-1	Arsenic	1.3U ug/L	A
EB-8-042718	Calcium	0.020U mg/L	A

LDC #: 42437B4a  
 SDG #: 1813628  
 Laboratory: BC Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**

Level III/IV

Date: 6/27/18  
 Page: 1 of 2  
 Reviewer: JJ  
 2nd Reviewer: KK

**METHOD:** Metals (EPA Method 200.7/200.8)

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	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB=6
VII.	Matrix Spike/Matrix Spike Duplicates	A	(14,15) - Ca > 4x (#17,18)
VIII.	Duplicate sample analysis	A	16, 19 - As ok by difference
IX.	Serial Dilution	N	Not performed
X.	Laboratory control samples	A	LES
XI.	Field Duplicates	SW	(4,5) (7,8)
XII.	Internal Standard (ICP-MS)	A	
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 = Rinstate      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	1813628-02	Water	04/27/18
2	MW-20-4	1813628-03	Water	04/27/18
3	MW-20-3**	1813628-04**	Water	04/27/18
4	MW-20-2	1813628-05	Water	04/27/18
5	Dup-7-2Q18	1813628-06	Water	04/27/18
6	EB-8-042718	1813628-07	Water	04/27/18
7	MW-12-3	1813628-08	Water	04/27/18
8	DUP-8-2Q18	1813628-09	Water	04/27/18
9	MW-12-2	1813628-10	Water	04/27/18
10	MW-12-1	1813628-11	Water	04/27/18
11	MW-9	1813628-12	Water	04/27/18
12	MW-1	1813628-13	Water	04/27/18
13	MW-10	1813628-15	Water	04/27/18
14	MW-9MS	1813628-12MS	Water	04/27/18
15	MW-9MSD	1813628-12MSD	Water	04/27/18

**METHOD:** Metals (EPA Method 200.7/200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-9DUP	1813628-12DUP	Water	04/27/18
17	MW-1MS	1813628-13MS	Water	04/27/18
18	MW-1MSD	1813628-13MSD	Water	04/27/18
19	MW-1DUP <sup>*</sup>	1813628-13DUP	Water	04/27/18
20				
21				
22				
23				
24				

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
<b>II. ICP/MS Tune</b>				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution $\leq 5\%$ ?	✓			
<b>III. Calibration</b>				
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?			✓	
<b>IV. Blanks</b>				
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.	✓			
<b>V. ICP Interference Check Sample</b>				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
<b>VI. Matrix spike/Matrix spike duplicates</b>				
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.	✓			
<b>VII. Laboratory control samples</b>				
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
<b>VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)</b>				
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?			✓	
<b>IX. ICP Serial Dilution</b>				
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.		✓		
<b>X. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
<b>XI. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>XII. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>XIII. Field blanks</b>				
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: 12

Analyte	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Level	12								
As		0.70400	3.52	1.3								

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 10, 13

Analyte	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Level									
As		0.91500	4.575									
Ca (mg/L)		0.029812	0.14906									
Mg (mg/L)		0.030402	0.15201									

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 1, 11

Analyte	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level									
Ca		0.018394	0.09197									
Mg		0.022748	0.11374									

Sample Concentration units, unless otherwise noted: mg/L

Associated Samples: 2 - 9

Analyte	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (mg/L)	Action Level	6								
Ca		0.018473	0.09237	0.020								

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 #: 4243784a  
SDG #: 1813623

### VALIDATION FINDINGS WORKSHEET

#### Field Blanks

Page: 1 of 1  
Reviewer: JS  
2nd reviewer: KR

**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 ( )
Cr	0.76 ug/L
Ca	0.020 mg/L
Na	0.060 mg/L

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

Analyte	Concentration Units ( )

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

**METHOD:** Metals (EPA Method 200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	4	5		
Iron	160	77	70	
Chromium	0.64	0.50U	25	
Calcium (mg/L)	75	69	8	
Magnesium (mg/L)	30	28	7	
Sodium (mg/L)	22	21	5	
Potassium (mg/L)	3.2	2.9	10	

Analyte	Concentration (ug/L)		RPD	
	7	8		
Iron	240	240	0	
Arsenic	0.98	0.70U	33	
Chromium	0.50U	0.53	6	
Calcium (mg/L)	42	41	2	
Magnesium (mg/L)	15	15	0	
Sodium (mg/L)	26	25	4	
Potassium (mg/L)	2.9	2.9	0	

## 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)						
ICV	ICP (Initial calibration)	Fe	10.19 mg/L	10.00 mg/L	102.7	102%	Y
ICV	ICP/MS (Initial calibration) 517	As	120.629 ug/L	125.00 ug/L	96.57	96.57	Y
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 519 21:02	K	49.36 mg/L	50.00 mg/L	98.77	98.77 1067.56	Y
CCV 2	ICP/MS (Continuing calibration) 519 11:46	Cr	41.494 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	Pb 207.977	208.028	± 0.1 AMU	NA	Y
	%RSD	24.0	38267.1	≤ 5% RSD	1.67	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	
IFB	ICP interference check 5/9	As	19.256 ug/L	20.000 ug/L	96.37%	96.37%	Y
LCS	Laboratory control sample 2445	Pb	104.486 ug/L	100.00 ug/L	104%	104%	Y
MS	Matrix spike -13	Fe	<sup>ND</sup> (SSR-SR) 1.085 mg/L	1000.00 ug/L	109%	109%	Y
MSD	Duplicate	Fe	1.141 mg/L	FOUND: 1.085 mg/L	5.037%	5.047%	Y
PDS	Post digestion spike mw-9	Ca	69.04 mg/L	SA 10 SR 58.584 mg/L	105%	105%	Y
	ICP serial dilution						

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** NASA JPL, 2Q2018

**LDC Report Date:** June 27, 2018

**Parameters:** Wet Chemistry

**Validation Level:** Level III & IV

**Laboratory:** BC Laboratories, Inc.

**Sample Delivery Group (SDG):** 1813628

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1813628-02	Water	04/27/18
MW-20-4	1813628-03	Water	04/27/18
MW-20-3**	1813628-04**	Water	04/27/18
MW-20-2	1813628-05	Water	04/27/18
Dup-7-2Q18	1813628-06	Water	04/27/18
EB-8-042718	1813628-07	Water	04/27/18
MW-12-3	1813628-08	Water	04/27/18
DUP-8-2Q18	1813628-09	Water	04/27/18
MW-12-2	1813628-10	Water	04/27/18
MW-12-1	1813628-11	Water	04/27/18
MW-9	1813628-12	Water	04/27/18
MW-1	1813628-13	Water	04/27/18
MW-16	1813628-14	Water	04/27/18
MW-10	1813628-15	Water	04/27/18
MW-20-5DUP	1813628-02DUP	Water	04/27/18
MW-20-3MS	1813628-04MS	Water	04/27/18
MW-20-3MSD	1813628-04MSD	Water	04/27/18
MW-20-3DUP	1813628-04DUP	Water	04/27/18
MW-9MS	1813628-12MS	Water	04/27/18
MW-9MSD	1813628-12MSD	Water	04/27/18
MW-9DUP	1813628-12DUP	Water	04/27/18
MW-1MS	1813628-13MS	Water	04/27/18
MW-1MSD	1813628-13MSD	Water	04/27/18
MW-1DUP	1813628-13DUP	Water	04/27/18

\*\*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:

Alkalinity by Standard Method 2320B

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

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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 with the following exceptions:

Sample	Analyte	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
MW-20-5	pH	11 days	48 hours	J (all detects)	P
MW-20-4 MW-20-3** MW-20-2 Dup-7-2Q18 EB-8-042718 MW-12-3 DUP-8-2Q18 MW-12-2 MW-12-1 MW-9 MW-1 MW-16 MW-10	pH	10 days	48 hours	J (all detects)	P

## 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-8-042718 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-8-042718	Chloride Sulfate	0.23 0.40

## 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 with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
MW-20-5DUP (MW-20-4 MW-20-3** MW-20-2 Dup-7-2Q18 EB-8-042718 MW-12-3 DUP-8-2Q18)	Carbonate alkalinity	41.4 (≤20)	-	J (all detects) UJ (all non-detects)	A

## 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-20-2 and Dup-7-2Q18 and samples MW-12-3 and DUP-8-2Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-20-2	Dup-7-2Q18	
pH	8.03 units	8.01 units	0
Total dissolved solids	430 mg/L	430 mg/L	0
Chloride	39 mg/L	38 mg/L	3
Nitrate as N	1.6 mg/L	1.6 mg/L	0
Sulfate	62 mg/L	63 mg/L	2
Perchlorate	1.7 ug/L	0.58U ug/L	98

Analyte	Concentration		RPD
	MW-20-2	Dup-7-2Q18	
Total alkalinity	200 mg/L	200 mg/L	0
Bicarbonate	250 mg/L	240 mg/L	4

Analyte	Concentration		RPD
	MW-12-3	DUP-8-2Q18	
pH	8.15 units	8.10 units	1
Total dissolved solids	290 mg/L	280 mg/L	4
Chloride	16 mg/L	16 mg/L	0
Nitrate as N	0.12 mg/L	0.085 mg/L	34
Sulfate	29 mg/L	29 mg/L	0
Perchlorate	0.82 ug/L	0.81 ug/L	1
Total alkalinity	170 mg/L	160 mg/L	6
Bicarbonate	210 mg/L	200 mg/L	5

## 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 technical holding time and DUP RPD, data were qualified as estimated in fourteen 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, 2Q2018  
Wet Chemistry - Data Qualification Summary - SDG 1813628**

Sample	Analyte	Flag	A or P	Reason
MW-20-5 MW-20-4 MW-20-3** MW-20-2 Dup-7-2Q18 EB-8-042718 MW-12-3 DUP-8-2Q18 MW-12-2 MW-12-1 MW-9 MW-1 MW-16 MW-10	pH	J (all detects)	P	Technical holding times
MW-20-4 MW-20-3** MW-20-2 Dup-7-2Q18 EB-8-042718 MW-12-3 DUP-8-2Q18	Carbonate alkalinity	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)

**NASA JPL, 2Q2018  
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1813628**

No Sample Data Qualified in this SDG

LDC #: 42437B6

**VALIDATION COMPLETENESS WORKSHEET**

Date: 4/27/18

SDG #: 1813628

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JB

2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH EPA Method 150.1, TDS (EPA Method 160.1)

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	SW
II.	Initial calibration	A	
III.	Calibration verification	A	
IV.	Laboratory Blanks	A	
V.	Field blanks	SW	EB=6
VI.	Matrix Spike/Matrix Spike Duplicates	A	(16,17) (19,20) (22,23)
VII.	Duplicate sample analysis	SW	15, 18, 21, 24
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(4,5), (7,8)
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 = Rinstate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

\*\* Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-20-5	1813628-02	Water	04/27/18
2	MW-20-4	1813628-03	Water	04/27/18
3	MW-20-3**	1813628-04**	Water	04/27/18
4	MW-20-2	1813628-05	Water	04/27/18
5	Dup-7-2Q18	1813628-06	Water	04/27/18
6	EB-8-042718	1813628-07	Water	04/27/18
7	MW-12-3	1813628-08	Water	04/27/18
8	DUP-8-2Q18	1813628-09	Water	04/27/18
9	MW-12-2	1813628-10	Water	04/27/18
10	MW-12-1	1813628-11	Water	04/27/18
11	MW-9	1813628-12	Water	04/27/18
12	MW-1	1813628-13	Water	04/27/18
13	MW-16	1813628-14	Water	04/27/18
14	MW-10	1813628-15	Water	04/27/18
15	MW-20-5DUP	1813628-02DUP	Water	04/27/18
16	MW-20-3MS	1813628-04MS	Water	04/27/18
17	MW-20-3MSD	1813628-04MSD	Water	04/27/18

LDC #: 42437B6

### VALIDATION COMPLETENESS WORKSHEET

Date: 6/27/18

SDG #: 1813628

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: JS

2nd Reviewer: KK

**METHOD: (Analyte)** Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA SW846 Method 7196), Orthophosphate (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH EPA Method 150.1), TDS (EPA Method 160.1)

	Client ID	Lab ID	Matrix	Date
18	MW-20-3DUP	1813628-04DUP	Water	04/27/18
19	MW-9MS	1813628-12MS	Water	04/27/18
20	MW-9MSD	1813628-12MSD	Water	04/27/18
21	MW-9DUP	1813628-12DUP	Water	04/27/18
22	MW-1MS	1813628-13MS	Water	04/27/18
23	MW-1MSD	1813628-13MSD	Water	04/27/18
24	MW-1DUP	1813628-13DUP	Water	04/27/18
25				
26				
27				
28				
29				

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Analysis Reference**

All circled methods are applicable to each sample.

Sample ID	Parameter
1-12, 14	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
13	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
De	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
15	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
16, 17	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
18	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
19, 20	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
21	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
12, 23	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
24	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>
	pH TDS Cl F NO <sub>3</sub> NO <sub>2</sub> SO <sub>4</sub> O-PO <sub>4</sub> Alk CN NH <sub>3</sub> TKN TOC Cr6+ ClO <sub>4</sub>

Comments: \_\_\_\_\_



Method: Inorganics (EPA Method See CD 144)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	✓			
<b>II. Calibration</b>				
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)	✓			
<b>III. Blanks</b>				
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.		✓		
<b>IV. Matrix spike/Matrix spike duplicates and Duplicates</b>				
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.			✓	
<b>V. Laboratory control samples</b>				
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?	✓			
<b>VI. Regional Quality Assurance and Quality Control</b>				
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
<b>VII. Sample Result Verification</b>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
<b>VIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	✓			
<b>IX. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
<b>X. Field blanks</b>				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			



LDC #: 4243786  
SDG #: 1813623

# VALIDATION FINDINGS WORKSHEET

## Field Blanks

Page: 1 of 1  
Reviewer: JS  
2nd reviewer: KK

**METHOD:** Inorganics

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 ( )
Cl <sup>-</sup>	0.23 mg/L
SO <sub>4</sub> <sup>-</sup>	0.40 mg/L

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

Analyte	Concentration Units ( )



## VALIDATION FINDINGS WORKSHEET

### Field Duplicates

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	4	5		
pH (pH Units)	8.03	8.01	0	
TDS	430	430	0	
Chloride	39	38	3	
Nitrate as N	1.6	1.6	0	
Sulfate	62	63	2	
Perchlorate (ug/L)	1.7	0.58U	98	
Total Alkalinity	200	200	0	
Bicarbonate	250	240	4	

Analyte	Concentration (mg/L)		RPD	
	7	8		
pH (pH Units)	8.15	8.10	1	
TDS	290	280	4	
Chloride	16	16	0	
Nitrate as N	0.12	0.085	34	
Sulfate	29	29	0	
Perchlorate (ug/L)	0.82	0.81	1	
Total Alkalinity	170	160	6	
Bicarbonate	210	200	5	

LDC #: 42437B

**Validation Findings Worksheet**  
**Initial and Continuing Calibration Calculation Verification**

Page: 1 of 1  
 Reviewer: B  
 2nd Reviewer: AK

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of C104 was recalculated. Calibration date: 5/8/13

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 <sup>2</sup>	r or r <sup>2</sup>	
Initial calibration	C104	s1	2	0.0026	99.9871%	99.9882%	Y
		s2	4	0.0054			
		s3	6	0.0078			
		s4	10	0.0133			
		s5	20	0.0263			
Calibration verification	NO <sub>2</sub>	ICV	<u>FOUND:</u> 0.5316mg/L	<u>TRUE:</u> 0.5000mg/L	106%	106%	Y
Calibration verification		CCV <sub>c</sub>	<u>FOUND:</u> 0.04945mg/L	<u>TRUE:</u> 0.05000mg/L	98.9%	97.6%	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	TDS	595 mg/L	586 mg/L	102%	102%	Y
MS	Matrix spike sample -L3	Cl	21.292 (SSR-SR) 78.959 - 21.292 = 57.667 mg/L	50.505 mg/L	114%	116%	Y
MSD	Duplicate sample	Cl	78.812 mg/L	FOUND: 78.959 mg/L	0.186%	0.190%	Y

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





## NASA JPL, 2Q2018 - LDC# 42437

SDG: 1813628

Analytical Method		EPA-150.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-7-2Q18	1813628-06	pH	5/7/2018	8.01		y	v	J	0.05	0.05	pH Units
DUP-8-2Q18	1813628-09	pH	5/7/2018	8.1		y	v	J	0.05	0.05	pH Units
EB-8-042718	1813628-07	pH	5/7/2018	4.43		y	v	J	0.05	0.05	pH Units
MW-1	1813628-13	pH	5/7/2018	7.93		y	v	J	0.05	0.05	pH Units
MW-10	1813628-15	pH	5/7/2018	7.31		y	v	J	0.05	0.05	pH Units
MW-12-1	1813628-11	pH	5/7/2018	7.64		y	v	J	0.05	0.05	pH Units
MW-12-2	1813628-10	pH	5/7/2018	7.83		y	v	J	0.05	0.05	pH Units
MW-12-3	1813628-08	pH	5/7/2018	8.15		y	v	J	0.05	0.05	pH Units
MW-16	1813628-14	pH	5/7/2018	7.75		y	v	J	0.05	0.05	pH Units
MW-20-2	1813628-05	pH	5/7/2018	8.03		y	v	J	0.05	0.05	pH Units
MW-20-3	1813628-04	pH	5/7/2018	8.86		y	v	J	0.05	0.05	pH Units
MW-20-4	1813628-03	pH	5/7/2018	8.9		y	v	J	0.05	0.05	pH Units
MW-20-5	1813628-02	pH	5/8/2018	8.73		y	v	J	0.05	0.05	pH Units
MW-9	1813628-12	pH	5/7/2018	7.54		y	v	J	0.05	0.05	pH Units

Analytical Method		EPA-160.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-7-2Q18	1813628-06	Total Dissolved Solids @ 180 C	5/2/2018	430		y	v		20	20	mg/L
DUP-8-2Q18	1813628-09	Total Dissolved Solids @ 180 C	5/2/2018	280		y	v		20	20	mg/L
EB-8-042718	1813628-07	Total Dissolved Solids @ 180 C	5/2/2018	6.7		n	u		6.7	6.7	mg/L
MW-1	1813628-13	Total Dissolved Solids @ 180 C	5/2/2018	380		y	v		20	20	mg/L
MW-10	1813628-15	Total Dissolved Solids @ 180 C	5/2/2018	740		y	v		33	33	mg/L
MW-12-1	1813628-11	Total Dissolved Solids @ 180 C	5/2/2018	390		y	v		20	20	mg/L
MW-12-2	1813628-10	Total Dissolved Solids @ 180 C	5/2/2018	360		y	v		20	20	mg/L

SDG: 1813628

<b>Analytical Method</b>		EPA-160.1									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-12-3	1813628-08	Total Dissolved Solids @ 180 C	5/2/2018	290		y	v		20	20	mg/L
MW-16	1813628-14	Total Dissolved Solids @ 180 C	5/2/2018	470		y	v		33	33	mg/L
MW-20-2	1813628-05	Total Dissolved Solids @ 180 C	5/2/2018	430		y	v		20	20	mg/L
MW-20-3	1813628-04	Total Dissolved Solids @ 180 C	5/2/2018	190		y	v		20	20	mg/L
MW-20-4	1813628-03	Total Dissolved Solids @ 180 C	5/2/2018	220		y	v		20	20	mg/L
MW-20-5	1813628-02	Total Dissolved Solids @ 180 C	5/2/2018	190		y	v		10	10	mg/L
MW-9	1813628-12	Total Dissolved Solids @ 180 C	5/2/2018	400		y	v		20	20	mg/L

<b>Analytical Method</b>		EPA-200.7									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-7-2Q18	1813628-06	Total Recoverable Magnesium	5/9/2018	28		y	v		0.050	0.019	mg/L
Dup-7-2Q18	1813628-06	Total Recoverable Sodium	5/9/2018	21		y	v		0.50	0.051	mg/L
Dup-7-2Q18	1813628-06	Total Recoverable Calcium	5/9/2018	69		y	v		0.10	0.014	mg/L
Dup-7-2Q18	1813628-06	Total Recoverable Iron	5/9/2018	77		y	v		50	30	ug/L
Dup-7-2Q18	1813628-06	Total Recoverable Potassium	5/9/2018	2.9		y	v		1.0	0.10	mg/L
DUP-8-2Q18	1813628-09	Total Recoverable Magnesium	5/9/2018	15		y	v		0.050	0.019	mg/L
DUP-8-2Q18	1813628-09	Total Recoverable Potassium	5/9/2018	2.9		y	v		1.0	0.10	mg/L
DUP-8-2Q18	1813628-09	Total Recoverable Calcium	5/9/2018	41		y	v		0.10	0.014	mg/L
DUP-8-2Q18	1813628-09	Total Recoverable Iron	5/9/2018	240		y	v		50	30	ug/L
DUP-8-2Q18	1813628-09	Total Recoverable Sodium	5/9/2018	25		y	v		0.50	0.051	mg/L
EB-8-042718	1813628-07	Total Recoverable Iron	5/9/2018	50		n	u		50	30	ug/L
EB-8-042718	1813628-07	Total Recoverable Potassium	5/9/2018	1		n	u		1.0	0.10	mg/L
EB-8-042718	1813628-07	Total Recoverable Sodium	5/9/2018	0.06		y	v j		0.50	0.051	mg/L
EB-8-042718	1813628-07	Total Recoverable Magnesium	5/9/2018	0.05		n	u		0.050	0.019	mg/L
EB-8-042718	1813628-07	Total Recoverable Calcium	5/9/2018	0.02		y	v j	U	0.10	0.014	mg/L

SDG: 1813628

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-1	1813628-13	Total Recoverable Iron	5/9/2018	50		n	u		50	30	ug/L
MW-1	1813628-13	Total Recoverable Magnesium	5/9/2018	21		y	v		0.050	0.019	mg/L
MW-1	1813628-13	Total Recoverable Calcium	5/9/2018	67		y	v		0.10	0.014	mg/L
MW-1	1813628-13	Total Recoverable Potassium	5/9/2018	3.4		y	v		1.0	0.10	mg/L
MW-1	1813628-13	Total Recoverable Sodium	5/9/2018	32		y	v		0.50	0.051	mg/L
MW-10	1813628-15	Total Recoverable Calcium	5/9/2018	130		y	v		0.10	0.014	mg/L
MW-10	1813628-15	Total Recoverable Magnesium	5/9/2018	44		y	v		0.050	0.019	mg/L
MW-10	1813628-15	Total Recoverable Sodium	5/9/2018	34		y	v		0.50	0.051	mg/L
MW-10	1813628-15	Total Recoverable Potassium	5/9/2018	3.1		y	v		1.0	0.10	mg/L
MW-10	1813628-15	Total Recoverable Iron	5/9/2018	64		y	v		50	30	ug/L
MW-12-1	1813628-11	Total Recoverable Calcium	5/9/2018	71		y	v		0.10	0.014	mg/L
MW-12-1	1813628-11	Total Recoverable Magnesium	5/9/2018	24		y	v		0.050	0.019	mg/L
MW-12-1	1813628-11	Total Recoverable Sodium	5/9/2018	27		y	v		0.50	0.051	mg/L
MW-12-1	1813628-11	Total Recoverable Potassium	5/9/2018	3.6		y	v		1.0	0.10	mg/L
MW-12-1	1813628-11	Total Recoverable Iron	5/9/2018	88		y	v		50	30	ug/L
MW-12-2	1813628-10	Total Recoverable Magnesium	5/9/2018	20		y	v		0.050	0.019	mg/L
MW-12-2	1813628-10	Total Recoverable Calcium	5/9/2018	62		y	v		0.10	0.014	mg/L
MW-12-2	1813628-10	Total Recoverable Iron	5/9/2018	910		y	v		50	30	ug/L
MW-12-2	1813628-10	Total Recoverable Sodium	5/9/2018	28		y	v		0.50	0.051	mg/L
MW-12-2	1813628-10	Total Recoverable Potassium	5/9/2018	3.4		y	v		1.0	0.10	mg/L
MW-12-3	1813628-08	Total Recoverable Magnesium	5/9/2018	15		y	v		0.050	0.019	mg/L
MW-12-3	1813628-08	Total Recoverable Sodium	5/9/2018	26		y	v		0.50	0.051	mg/L
MW-12-3	1813628-08	Total Recoverable Potassium	5/9/2018	2.9		y	v		1.0	0.10	mg/L
MW-12-3	1813628-08	Total Recoverable Calcium	5/9/2018	42		y	v		0.10	0.014	mg/L
MW-12-3	1813628-08	Total Recoverable Iron	5/9/2018	240		y	v		50	30	ug/L

SDG: 1813628

Analytical Method		EPA-200.7									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1813628-05	Total Recoverable Magnesium	5/9/2018	30		y	v		0.050	0.019	mg/L
MW-20-2	1813628-05	Total Recoverable Potassium	5/9/2018	3.2		y	v		1.0	0.10	mg/L
MW-20-2	1813628-05	Total Recoverable Sodium	5/9/2018	22		y	v		0.50	0.051	mg/L
MW-20-2	1813628-05	Total Recoverable Iron	5/9/2018	160		y	v		50	30	ug/L
MW-20-2	1813628-05	Total Recoverable Calcium	5/9/2018	75		y	v		0.10	0.014	mg/L
MW-20-3	1813628-04	Total Recoverable Potassium	5/9/2018	1.8		y	v		1.0	0.10	mg/L
MW-20-3	1813628-04	Total Recoverable Iron	5/9/2018	50		n	u		50	30	ug/L
MW-20-3	1813628-04	Total Recoverable Magnesium	5/9/2018	6.2		y	v		0.050	0.019	mg/L
MW-20-3	1813628-04	Total Recoverable Calcium	5/9/2018	6.6		y	v		0.10	0.014	mg/L
MW-20-3	1813628-04	Total Recoverable Sodium	5/9/2018	48		y	v		0.50	0.051	mg/L
MW-20-4	1813628-03	Total Recoverable Iron	5/9/2018	78		y	v		50	30	ug/L
MW-20-4	1813628-03	Total Recoverable Potassium	5/9/2018	0.86		y	v j		1.0	0.10	mg/L
MW-20-4	1813628-03	Total Recoverable Calcium	5/9/2018	7.8		y	v		0.10	0.014	mg/L
MW-20-4	1813628-03	Total Recoverable Magnesium	5/9/2018	2.9		y	v		0.050	0.019	mg/L
MW-20-4	1813628-03	Total Recoverable Sodium	5/9/2018	68		y	v		0.50	0.051	mg/L
MW-20-5	1813628-02	Total Recoverable Potassium	5/9/2018	1.5		y	v		1.0	0.10	mg/L
MW-20-5	1813628-02	Total Recoverable Calcium	5/9/2018	6.9		y	v		0.10	0.014	mg/L
MW-20-5	1813628-02	Total Recoverable Magnesium	5/9/2018	2.2		y	v		0.050	0.019	mg/L
MW-20-5	1813628-02	Total Recoverable Iron	5/9/2018	50		n	u		50	30	ug/L
MW-20-5	1813628-02	Total Recoverable Sodium	5/9/2018	59		y	v		0.50	0.051	mg/L
MW-9	1813628-12	Total Recoverable Potassium	5/9/2018	3.5		y	v		1.0	0.10	mg/L
MW-9	1813628-12	Total Recoverable Sodium	5/9/2018	26		y	v		0.50	0.051	mg/L
MW-9	1813628-12	Total Recoverable Magnesium	5/9/2018	19		y	v		0.050	0.019	mg/L
MW-9	1813628-12	Total Recoverable Calcium	5/9/2018	60		y	v		0.10	0.014	mg/L
MW-9	1813628-12	Total Recoverable Iron	5/9/2018	320		y	v		50	30	ug/L

SDG: 1813628

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-7-2Q18	1813628-06	Total Recoverable Chromium	5/9/2018	3		n	u		3.0	0.50	ug/L
Dup-7-2Q18	1813628-06	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
Dup-7-2Q18	1813628-06	Total Recoverable Arsenic	5/9/2018	2		n	u		2.0	0.70	ug/L
DUP-8-2Q18	1813628-09	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
DUP-8-2Q18	1813628-09	Total Recoverable Arsenic	5/9/2018	2		n	u		2.0	0.70	ug/L
DUP-8-2Q18	1813628-09	Total Recoverable Chromium	5/9/2018	0.53		y	v j		3.0	0.50	ug/L
EB-8-042718	1813628-07	Total Recoverable Arsenic	5/9/2018	2		n	u		2.0	0.70	ug/L
EB-8-042718	1813628-07	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
EB-8-042718	1813628-07	Total Recoverable Chromium	5/9/2018	0.76		y	v j		3.0	0.50	ug/L
MW-1	1813628-13	Total Recoverable Chromium	5/7/2018	3		n	u		3.0	0.50	ug/L
MW-1	1813628-13	Total Recoverable Lead	5/7/2018	1		n	u		1.0	0.10	ug/L
MW-1	1813628-13	Total Recoverable Arsenic	5/7/2018	1.3		y	v j	U	2.0	0.70	ug/L
MW-10	1813628-15	Total Recoverable Lead	5/7/2018	1		n	u		1.0	0.10	ug/L
MW-10	1813628-15	Total Recoverable Chromium	5/7/2018	10		y	v		3.0	0.50	ug/L
MW-10	1813628-15	Total Recoverable Arsenic	5/7/2018	2		n	u		2.0	0.70	ug/L
MW-12-1	1813628-11	Total Recoverable Lead	5/7/2018	1		n	u		1.0	0.10	ug/L
MW-12-1	1813628-11	Total Recoverable Arsenic	5/7/2018	2		n	u		2.0	0.70	ug/L
MW-12-1	1813628-11	Total Recoverable Chromium	5/7/2018	3		n	u		3.0	0.50	ug/L
MW-12-2	1813628-10	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
MW-12-2	1813628-10	Total Recoverable Chromium	5/9/2018	0.99		y	v j		3.0	0.50	ug/L
MW-12-2	1813628-10	Total Recoverable Arsenic	5/9/2018	2		n	u		2.0	0.70	ug/L
MW-12-3	1813628-08	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
MW-12-3	1813628-08	Total Recoverable Arsenic	5/9/2018	0.98		y	v j		2.0	0.70	ug/L
MW-12-3	1813628-08	Total Recoverable Chromium	5/9/2018	3		n	u		3.0	0.50	ug/L
MW-20-2	1813628-05	Total Recoverable Arsenic	5/9/2018	2		n	u		2.0	0.70	ug/L

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<b>Analytical Method</b>		EPA-200.8									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-20-2	1813628-05	Total Recoverable Chromium	5/9/2018	0.64		y	v j		3.0	0.50	ug/L
MW-20-2	1813628-05	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
MW-20-3	1813628-04	Total Recoverable Arsenic	5/9/2018	1.3		y	v j		2.0	0.70	ug/L
MW-20-3	1813628-04	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
MW-20-3	1813628-04	Total Recoverable Chromium	5/9/2018	0.66		y	v j		3.0	0.50	ug/L
MW-20-4	1813628-03	Total Recoverable Chromium	5/9/2018	3		n	u		3.0	0.50	ug/L
MW-20-4	1813628-03	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
MW-20-4	1813628-03	Total Recoverable Arsenic	5/9/2018	1.4		y	v j		2.0	0.70	ug/L
MW-20-5	1813628-02	Total Recoverable Arsenic	5/9/2018	1.7		y	v j		2.0	0.70	ug/L
MW-20-5	1813628-02	Total Recoverable Lead	5/9/2018	1		n	u		1.0	0.10	ug/L
MW-20-5	1813628-02	Total Recoverable Chromium	5/9/2018	3		n	u		3.0	0.50	ug/L
MW-9	1813628-12	Total Recoverable Lead	5/9/2018	0.14		y	v j		1.0	0.10	ug/L
MW-9	1813628-12	Total Recoverable Chromium	5/9/2018	3		y	v		3.0	0.50	ug/L
MW-9	1813628-12	Total Recoverable Arsenic	5/9/2018	2		n	u		2.0	0.70	ug/L

<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-7-2Q18	1813628-06	Sulfate	4/29/2018	63		y	v		1.0	0.13	mg/L
Dup-7-2Q18	1813628-06	Chloride	4/29/2018	38		y	v		0.50	0.077	mg/L
Dup-7-2Q18	1813628-06	Nitrate as N	4/29/2018	1.6		y	v		0.10	0.021	mg/L
DUP-8-2Q18	1813628-09	Sulfate	4/29/2018	29		y	v		1.0	0.13	mg/L
DUP-8-2Q18	1813628-09	Nitrate as N	4/29/2018	0.085		y	v j		0.10	0.021	mg/L
DUP-8-2Q18	1813628-09	Chloride	4/29/2018	16		y	v		0.50	0.077	mg/L
EB-8-042718	1813628-07	Nitrate as N	4/29/2018	0.1		n	u		0.10	0.021	mg/L
EB-8-042718	1813628-07	Sulfate	4/29/2018	0.4		y	v j		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
EB-8-042718	1813628-07	Chloride	4/29/2018	0.23		y	v j		0.50	0.077	mg/L
MW-1	1813628-13	Sulfate	4/29/2018	53		y	v		1.0	0.13	mg/L
MW-1	1813628-13	Nitrate as N	4/29/2018	0.59		y	v		0.10	0.021	mg/L
MW-1	1813628-13	Chloride	4/29/2018	21		y	v		0.50	0.077	mg/L
MW-10	1813628-15	Chloride	4/29/2018	110		y	v		0.50	0.077	mg/L
MW-10	1813628-15	Nitrate as N	4/29/2018	13		y	v		0.10	0.021	mg/L
MW-10	1813628-15	Sulfate	4/29/2018	170		y	v		1.0	0.13	mg/L
MW-12-1	1813628-11	Sulfate	4/29/2018	61		y	v		1.0	0.13	mg/L
MW-12-1	1813628-11	Chloride	4/29/2018	30		y	v		0.50	0.077	mg/L
MW-12-1	1813628-11	Nitrate as N	4/29/2018	1.2		y	v		0.10	0.021	mg/L
MW-12-2	1813628-10	Nitrate as N	4/29/2018	0.62		y	v		0.10	0.021	mg/L
MW-12-2	1813628-10	Chloride	4/29/2018	23		y	v		0.50	0.077	mg/L
MW-12-2	1813628-10	Sulfate	4/29/2018	37		y	v		1.0	0.13	mg/L
MW-12-3	1813628-08	Nitrate as N	4/29/2018	0.12		y	v		0.10	0.021	mg/L
MW-12-3	1813628-08	Chloride	4/29/2018	16		y	v		0.50	0.077	mg/L
MW-12-3	1813628-08	Sulfate	4/29/2018	29		y	v		1.0	0.13	mg/L
MW-16	1813628-14	Sulfate	4/29/2018	55		y	v		1.0	0.13	mg/L
MW-16	1813628-14	Nitrate as N	4/29/2018	1.4		y	v		0.10	0.021	mg/L
MW-16	1813628-14	Chloride	4/29/2018	99		y	v		0.50	0.077	mg/L
MW-20-2	1813628-05	Chloride	4/29/2018	39		y	v		0.50	0.077	mg/L
MW-20-2	1813628-05	Nitrate as N	4/29/2018	1.6		y	v		0.10	0.021	mg/L
MW-20-2	1813628-05	Sulfate	4/29/2018	62		y	v		1.0	0.13	mg/L
MW-20-3	1813628-04	Chloride	4/29/2018	42		y	v		0.50	0.077	mg/L
MW-20-3	1813628-04	Nitrate as N	4/29/2018	0.17		y	v		0.10	0.021	mg/L
MW-20-3	1813628-04	Sulfate	4/29/2018	5		y	v		1.0	0.13	mg/L



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<b>Analytical Method</b>		EPA-300.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-20-4	1813628-03	Nitrate as N	4/29/2018	0.1		n	u		0.10	0.021	mg/L
MW-20-4	1813628-03	Chloride	4/29/2018	9.7		y	v		0.50	0.077	mg/L
MW-20-4	1813628-03	Sulfate	4/29/2018	8.8		y	v		1.0	0.13	mg/L
MW-20-5	1813628-02	Chloride	4/28/2018	8		y	v		0.50	0.077	mg/L
MW-20-5	1813628-02	Nitrate as N	4/28/2018	0.1		n	u		0.10	0.021	mg/L
MW-20-5	1813628-02	Sulfate	4/28/2018	4.1		y	v		1.0	0.13	mg/L
MW-9	1813628-12	Nitrate as N	4/29/2018	6.5		y	v		0.10	0.021	mg/L
MW-9	1813628-12	Chloride	4/29/2018	26		y	v		0.50	0.077	mg/L
MW-9	1813628-12	Sulfate	4/29/2018	41		y	v		1.0	0.13	mg/L

<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-7-2Q18	1813628-06	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
DUP-8-2Q18	1813628-09	Perchlorate	5/15/2018	0.81		y	v j		4.0	0.58	ug/L
EB-8-042718	1813628-07	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
MW-1	1813628-13	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
MW-10	1813628-15	Perchlorate	5/15/2018	4.6		y	v		4.0	0.58	ug/L
MW-12-1	1813628-11	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
MW-12-2	1813628-10	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
MW-12-3	1813628-08	Perchlorate	5/15/2018	0.82		y	v j		4.0	0.58	ug/L
MW-16	1813628-14	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
MW-20-2	1813628-05	Perchlorate	5/15/2018	1.7		y	v j		4.0	0.58	ug/L
MW-20-3	1813628-04	Perchlorate	5/15/2018	1.4		y	v j		4.0	0.58	ug/L
MW-20-4	1813628-03	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L
MW-20-5	1813628-02	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L

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<b>Analytical Method</b>		EPA-314.0									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-9	1813628-12	Perchlorate	5/15/2018	4		n	u		4.0	0.58	ug/L

<b>Analytical Method</b>		EPA-353.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-7-2Q18	1813628-06	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
DUP-8-2Q18	1813628-09	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
EB-8-042718	1813628-07	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-1	1813628-13	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-10	1813628-15	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-12-1	1813628-11	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-12-2	1813628-10	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-12-3	1813628-08	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-16	1813628-14	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-20-2	1813628-05	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-20-3	1813628-04	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-20-4	1813628-03	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-20-5	1813628-02	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L
MW-9	1813628-12	Nitrite as N	4/28/2018	0.05		n	u		0.050	0.010	mg/L

<b>Analytical Method</b>		EPA-365.1									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-16	1813628-14	ortho-Phosphate as P	4/28/2018	0.24		y	v		0.050	0.017	mg/L

<b>Analytical Method</b>		EPA-524.2									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-7-2Q18	1813628-06	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
Dup-7-2Q18	1813628-06	Acetone	5/1/2018	10		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-7-2Q18	1813628-06	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
Dup-7-2Q18	1813628-06	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
Dup-7-2Q18	1813628-06	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
Dup-7-2Q18	1813628-06	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
Dup-7-2Q18	1813628-06	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
Dup-7-2Q18	1813628-06	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
Dup-7-2Q18	1813628-06	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
Dup-7-2Q18	1813628-06	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
Dup-7-2Q18	1813628-06	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
Dup-7-2Q18	1813628-06	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
Dup-7-2Q18	1813628-06	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
Dup-7-2Q18	1813628-06	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
Dup-7-2Q18	1813628-06	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
Dup-7-2Q18	1813628-06	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
Dup-7-2Q18	1813628-06	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
Dup-7-2Q18	1813628-06	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
Dup-7-2Q18	1813628-06	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
Dup-7-2Q18	1813628-06	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
Dup-7-2Q18	1813628-06	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
Dup-7-2Q18	1813628-06	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
Dup-7-2Q18	1813628-06	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
Dup-7-2Q18	1813628-06	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
Dup-7-2Q18	1813628-06	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
Dup-7-2Q18	1813628-06	1,2-Dichloroethane	5/1/2018	0.5		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
Dup-7-2Q18	1813628-06	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
Dup-7-2Q18	1813628-06	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
Dup-7-2Q18	1813628-06	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
Dup-7-2Q18	1813628-06	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
Dup-7-2Q18	1813628-06	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
Dup-7-2Q18	1813628-06	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
Dup-7-2Q18	1813628-06	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
Dup-7-2Q18	1813628-06	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
Dup-7-2Q18	1813628-06	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
Dup-7-2Q18	1813628-06	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
Dup-7-2Q18	1813628-06	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
Dup-7-2Q18	1813628-06	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
Dup-7-2Q18	1813628-06	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
Dup-7-2Q18	1813628-06	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
Dup-7-2Q18	1813628-06	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
Dup-7-2Q18	1813628-06	Chloroform	5/1/2018	0.23		y	v j		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
Dup-7-2Q18	1813628-06	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
Dup-7-2Q18	1813628-06	Carbon disulfide	5/1/2018	0.66		y	v j		1.0	0.48	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-7-2Q18	1813628-06	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
Dup-7-2Q18	1813628-06	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
Dup-7-2Q18	1813628-06	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
Dup-7-2Q18	1813628-06	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
Dup-7-2Q18	1813628-06	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
Dup-7-2Q18	1813628-06	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
Dup-7-2Q18	1813628-06	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
Dup-7-2Q18	1813628-06	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
Dup-7-2Q18	1813628-06	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
Dup-7-2Q18	1813628-06	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
Dup-7-2Q18	1813628-06	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
Dup-7-2Q18	1813628-06	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
Dup-7-2Q18	1813628-06	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
Dup-7-2Q18	1813628-06	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
Dup-7-2Q18	1813628-06	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
Dup-7-2Q18	1813628-06	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
Dup-7-2Q18	1813628-06	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
Dup-7-2Q18	1813628-06	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
Dup-7-2Q18	1813628-06	Hexachlorobutadiene	5/1/2018	0.5		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-7-2Q18	1813628-06	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
Dup-7-2Q18	1813628-06	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
Dup-7-2Q18	1813628-06	Trichloroethene	5/1/2018	0.85		y	v		0.50	0.19	ug/L
DUP-8-2Q18	1813628-09	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
DUP-8-2Q18	1813628-09	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
DUP-8-2Q18	1813628-09	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
DUP-8-2Q18	1813628-09	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
DUP-8-2Q18	1813628-09	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
DUP-8-2Q18	1813628-09	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
DUP-8-2Q18	1813628-09	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
DUP-8-2Q18	1813628-09	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
DUP-8-2Q18	1813628-09	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
DUP-8-2Q18	1813628-09	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
DUP-8-2Q18	1813628-09	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
DUP-8-2Q18	1813628-09	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
DUP-8-2Q18	1813628-09	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
DUP-8-2Q18	1813628-09	Chloroform	5/1/2018	0.49		y	v j		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
DUP-8-2Q18	1813628-09	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Carbon tetrachloride	5/1/2018	0.5		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
DUP-8-2Q18	1813628-09	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
DUP-8-2Q18	1813628-09	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
DUP-8-2Q18	1813628-09	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
DUP-8-2Q18	1813628-09	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
DUP-8-2Q18	1813628-09	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
DUP-8-2Q18	1813628-09	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
DUP-8-2Q18	1813628-09	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
DUP-8-2Q18	1813628-09	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
DUP-8-2Q18	1813628-09	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
DUP-8-2Q18	1813628-09	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
DUP-8-2Q18	1813628-09	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
DUP-8-2Q18	1813628-09	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
DUP-8-2Q18	1813628-09	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
DUP-8-2Q18	1813628-09	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
DUP-8-2Q18	1813628-09	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
DUP-8-2Q18	1813628-09	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
DUP-8-2Q18	1813628-09	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
DUP-8-2Q18	1813628-09	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
DUP-8-2Q18	1813628-09	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
DUP-8-2Q18	1813628-09	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
DUP-8-2Q18	1813628-09	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
DUP-8-2Q18	1813628-09	Vinyl chloride	5/1/2018	0.5		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
DUP-8-2Q18	1813628-09	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
DUP-8-2Q18	1813628-09	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
DUP-8-2Q18	1813628-09	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
DUP-8-2Q18	1813628-09	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
DUP-8-2Q18	1813628-09	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
DUP-8-2Q18	1813628-09	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
DUP-8-2Q18	1813628-09	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
DUP-8-2Q18	1813628-09	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
DUP-8-2Q18	1813628-09	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
DUP-8-2Q18	1813628-09	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
DUP-8-2Q18	1813628-09	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
DUP-8-2Q18	1813628-09	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
DUP-8-2Q18	1813628-09	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
DUP-8-2Q18	1813628-09	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
DUP-8-2Q18	1813628-09	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
DUP-8-2Q18	1813628-09	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
DUP-8-2Q18	1813628-09	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
DUP-8-2Q18	1813628-09	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
DUP-8-2Q18	1813628-09	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Tetrachloroethene	5/1/2018	0.5		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
DUP-8-2Q18	1813628-09	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
DUP-8-2Q18	1813628-09	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
DUP-8-2Q18	1813628-09	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
DUP-8-2Q18	1813628-09	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
DUP-8-2Q18	1813628-09	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
DUP-8-2Q18	1813628-09	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
DUP-8-2Q18	1813628-09	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
DUP-8-2Q18	1813628-09	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
DUP-8-2Q18	1813628-09	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
DUP-8-2Q18	1813628-09	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
EB-8-042718	1813628-07	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
EB-8-042718	1813628-07	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
EB-8-042718	1813628-07	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
EB-8-042718	1813628-07	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
EB-8-042718	1813628-07	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
EB-8-042718	1813628-07	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
EB-8-042718	1813628-07	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
EB-8-042718	1813628-07	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
EB-8-042718	1813628-07	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
EB-8-042718	1813628-07	cis-1,3-Dichloropropene	5/1/2018	0.5		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
EB-8-042718	1813628-07	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
EB-8-042718	1813628-07	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
EB-8-042718	1813628-07	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
EB-8-042718	1813628-07	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
EB-8-042718	1813628-07	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
EB-8-042718	1813628-07	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
EB-8-042718	1813628-07	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
EB-8-042718	1813628-07	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
EB-8-042718	1813628-07	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
EB-8-042718	1813628-07	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
EB-8-042718	1813628-07	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
EB-8-042718	1813628-07	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
EB-8-042718	1813628-07	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
EB-8-042718	1813628-07	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
EB-8-042718	1813628-07	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
EB-8-042718	1813628-07	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
EB-8-042718	1813628-07	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
EB-8-042718	1813628-07	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	sec-Butylbenzene	5/1/2018	0.5		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
EB-8-042718	1813628-07	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
EB-8-042718	1813628-07	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
EB-8-042718	1813628-07	Carbon disulfide	5/1/2018	0.49		y	v j		1.0	0.48	ug/L
EB-8-042718	1813628-07	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
EB-8-042718	1813628-07	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
EB-8-042718	1813628-07	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
EB-8-042718	1813628-07	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
EB-8-042718	1813628-07	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
EB-8-042718	1813628-07	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
EB-8-042718	1813628-07	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
EB-8-042718	1813628-07	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
EB-8-042718	1813628-07	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
EB-8-042718	1813628-07	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
EB-8-042718	1813628-07	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
EB-8-042718	1813628-07	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
EB-8-042718	1813628-07	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
EB-8-042718	1813628-07	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
EB-8-042718	1813628-07	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
EB-8-042718	1813628-07	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
EB-8-042718	1813628-07	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
EB-8-042718	1813628-07	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
EB-8-042718	1813628-07	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
EB-8-042718	1813628-07	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
EB-8-042718	1813628-07	Styrene	5/1/2018	0.5		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
EB-8-042718	1813628-07	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
EB-8-042718	1813628-07	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
EB-8-042718	1813628-07	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
EB-8-042718	1813628-07	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
EB-8-042718	1813628-07	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
EB-8-042718	1813628-07	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
EB-8-042718	1813628-07	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
EB-8-042718	1813628-07	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
EB-8-042718	1813628-07	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
EB-8-042718	1813628-07	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
EB-8-042718	1813628-07	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
EB-8-042718	1813628-07	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
EB-8-042718	1813628-07	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
EB-8-042718	1813628-07	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
EB-8-042718	1813628-07	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-1	1813628-13	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-1	1813628-13	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-1	1813628-13	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-1	1813628-13	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-1	1813628-13	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-1	1813628-13	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	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-1	1813628-13	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-1	1813628-13	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-1	1813628-13	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-1	1813628-13	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-1	1813628-13	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-1	1813628-13	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-1	1813628-13	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-1	1813628-13	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-1	1813628-13	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-1	1813628-13	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-1	1813628-13	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-1	1813628-13	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-1	1813628-13	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-1	1813628-13	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-1	1813628-13	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-1	1813628-13	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-1	1813628-13	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	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-1	1813628-13	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-1	1813628-13	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-1	1813628-13	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-1	1813628-13	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-1	1813628-13	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-1	1813628-13	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-1	1813628-13	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-1	1813628-13	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-1	1813628-13	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-1	1813628-13	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-1	1813628-13	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-1	1813628-13	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-1	1813628-13	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-1	1813628-13	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-1	1813628-13	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-1	1813628-13	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-1	1813628-13	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-1	1813628-13	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-1	1813628-13	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	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-1	1813628-13	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-1	1813628-13	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-1	1813628-13	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-1	1813628-13	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-1	1813628-13	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-1	1813628-13	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-1	1813628-13	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-1	1813628-13	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-1	1813628-13	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-1	1813628-13	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-1	1813628-13	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-1	1813628-13	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-1	1813628-13	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-1	1813628-13	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-1	1813628-13	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-1	1813628-13	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-1	1813628-13	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-10	1813628-15	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-10	1813628-15	Acrylonitrile	5/1/2018	5		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
MW-10	1813628-15	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-10	1813628-15	Trichloroethene	5/1/2018	6.1		y	v		0.50	0.19	ug/L
MW-10	1813628-15	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-10	1813628-15	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-10	1813628-15	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-10	1813628-15	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-10	1813628-15	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-10	1813628-15	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-10	1813628-15	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-10	1813628-15	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-10	1813628-15	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-10	1813628-15	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-10	1813628-15	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-10	1813628-15	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-10	1813628-15	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-10	1813628-15	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-10	1813628-15	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-10	1813628-15	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	Chloroform	5/1/2018	0.75		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-10	1813628-15	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-10	1813628-15	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-10	1813628-15	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-10	1813628-15	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-10	1813628-15	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-10	1813628-15	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-10	1813628-15	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-10	1813628-15	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-10	1813628-15	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-10	1813628-15	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-10	1813628-15	cis-1,2-Dichloroethene	5/1/2018	0.27		y	v j		0.50	0.27	ug/L
MW-10	1813628-15	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-10	1813628-15	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-10	1813628-15	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-10	1813628-15	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-10	1813628-15	1,1-Dichloroethane	5/1/2018	0.16		y	v j		0.50	0.15	ug/L
MW-10	1813628-15	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	trans-1,2-Dichloroethene	5/1/2018	0.29		y	v j		0.50	0.17	ug/L
MW-10	1813628-15	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-10	1813628-15	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-10	1813628-15	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-10	1813628-15	o-Xylene	5/1/2018	0.5		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
MW-10	1813628-15	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-10	1813628-15	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-10	1813628-15	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-10	1813628-15	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-10	1813628-15	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-10	1813628-15	Tetrachloroethene	5/1/2018	0.75		y	v		0.50	0.23	ug/L
MW-10	1813628-15	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-10	1813628-15	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-10	1813628-15	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-10	1813628-15	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-10	1813628-15	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-10	1813628-15	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-10	1813628-15	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-10	1813628-15	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-10	1813628-15	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-10	1813628-15	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-10	1813628-15	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-10	1813628-15	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-10	1813628-15	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-10	1813628-15	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-10	1813628-15	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-10	1813628-15	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-10	1813628-15	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-10	1813628-15	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	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-10	1813628-15	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-10	1813628-15	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-10	1813628-15	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-12-1	1813628-11	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-12-1	1813628-11	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-12-1	1813628-11	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-1	1813628-11	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-12-1	1813628-11	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-12-1	1813628-11	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-1	1813628-11	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-12-1	1813628-11	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-12-1	1813628-11	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-12-1	1813628-11	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-1	1813628-11	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-1	1813628-11	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-1	1813628-11	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-12-1	1813628-11	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-12-1	1813628-11	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-12-1	1813628-11	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-12-1	1813628-11	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-12-1	1813628-11	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-12-1	1813628-11	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-12-1	1813628-11	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-12-1	1813628-11	2-Hexanone	5/1/2018	10		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-12-1	1813628-11	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-1	1813628-11	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-12-1	1813628-11	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-12-1	1813628-11	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-12-1	1813628-11	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-12-1	1813628-11	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-1	1813628-11	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-1	1813628-11	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-1	1813628-11	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-1	1813628-11	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-1	1813628-11	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-12-1	1813628-11	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-12-1	1813628-11	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-1	1813628-11	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-12-1	1813628-11	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-12-1	1813628-11	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-12-1	1813628-11	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-1	1813628-11	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		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-12-1	1813628-11	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-1	1813628-11	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-1	1813628-11	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-12-1	1813628-11	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-12-1	1813628-11	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-12-1	1813628-11	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-1	1813628-11	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-1	1813628-11	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-1	1813628-11	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-1	1813628-11	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-1	1813628-11	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-12-1	1813628-11	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-12-1	1813628-11	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-12-1	1813628-11	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-12-1	1813628-11	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-12-1	1813628-11	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-1	1813628-11	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-1	1813628-11	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Trichloroethene	5/1/2018	0.5		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-12-1	1813628-11	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-1	1813628-11	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-1	1813628-11	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-1	1813628-11	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-1	1813628-11	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-1	1813628-11	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-1	1813628-11	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-1	1813628-11	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-1	1813628-11	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-12-2	1813628-10	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-12-2	1813628-10	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-12-2	1813628-10	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-12-2	1813628-10	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-2	1813628-10	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-2	1813628-10	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-12-2	1813628-10	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-12-2	1813628-10	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-2	1813628-10	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-2	1813628-10	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-12-2	1813628-10	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	1,2,3-Trichlorobenzene	5/1/2018	0.5		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	1813628-10	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-2	1813628-10	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-12-2	1813628-10	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-2	1813628-10	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-12-2	1813628-10	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-12-2	1813628-10	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-12-2	1813628-10	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-12-2	1813628-10	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-12-2	1813628-10	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-2	1813628-10	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-12-2	1813628-10	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-12-2	1813628-10	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-12-2	1813628-10	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-12-2	1813628-10	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-12-2	1813628-10	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-12-2	1813628-10	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-12-2	1813628-10	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-12-2	1813628-10	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-2	1813628-10	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-2	1813628-10	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-12-2	1813628-10	Methacrylonitrile	5/1/2018	10		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-12-2	1813628-10	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-12-2	1813628-10	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-2	1813628-10	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-12-2	1813628-10	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-12-2	1813628-10	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-2	1813628-10	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-12-2	1813628-10	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-2	1813628-10	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-12-2	1813628-10	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-12-2	1813628-10	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-12-2	1813628-10	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-2	1813628-10	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-2	1813628-10	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-12-2	1813628-10	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-12-2	1813628-10	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-2	1813628-10	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-2	1813628-10	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	Trichlorofluoromethane	5/1/2018	0.5		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-12-2	1813628-10	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-12-2	1813628-10	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-12-2	1813628-10	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-2	1813628-10	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-12-2	1813628-10	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-2	1813628-10	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-2	1813628-10	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-2	1813628-10	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-2	1813628-10	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-2	1813628-10	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-2	1813628-10	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-2	1813628-10	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-3	1813628-08	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-3	1813628-08	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-3	1813628-08	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-12-3	1813628-08	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		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-12-3	1813628-08	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-12-3	1813628-08	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-12-3	1813628-08	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-12-3	1813628-08	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-3	1813628-08	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-3	1813628-08	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-12-3	1813628-08	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-3	1813628-08	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-3	1813628-08	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-3	1813628-08	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-3	1813628-08	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-3	1813628-08	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-12-3	1813628-08	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-12-3	1813628-08	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-3	1813628-08	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-12-3	1813628-08	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-12-3	1813628-08	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-12-3	1813628-08	Pentachloroethane	5/1/2018	2		n	u	UJ	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-12-3	1813628-08	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-12-3	1813628-08	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-12-3	1813628-08	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-12-3	1813628-08	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-12-3	1813628-08	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-12-3	1813628-08	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-12-3	1813628-08	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-12-3	1813628-08	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-12-3	1813628-08	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-12-3	1813628-08	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-12-3	1813628-08	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-12-3	1813628-08	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-3	1813628-08	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-12-3	1813628-08	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-12-3	1813628-08	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-12-3	1813628-08	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-3	1813628-08	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-12-3	1813628-08	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-12-3	1813628-08	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-3	1813628-08	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	Bromochloromethane	5/1/2018	0.5		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-12-3	1813628-08	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-12-3	1813628-08	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-12-3	1813628-08	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-3	1813628-08	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-12-3	1813628-08	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-12-3	1813628-08	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-12-3	1813628-08	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-12-3	1813628-08	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-12-3	1813628-08	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	Chloroform	5/1/2018	0.56		y	v		0.50	0.14	ug/L
MW-12-3	1813628-08	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-12-3	1813628-08	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-12-3	1813628-08	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-12-3	1813628-08	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-12-3	1813628-08	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-12-3	1813628-08	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-12-3	1813628-08	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-12-3	1813628-08	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-12-3	1813628-08	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-12-3	1813628-08	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-16	1813628-14	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-16	1813628-14	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-16	1813628-14	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	1,3-Dichloropropane	5/1/2018	0.5		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
MW-16	1813628-14	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-16	1813628-14	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-16	1813628-14	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-16	1813628-14	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-16	1813628-14	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-16	1813628-14	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-16	1813628-14	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-16	1813628-14	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-16	1813628-14	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-16	1813628-14	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-16	1813628-14	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-16	1813628-14	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-16	1813628-14	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-16	1813628-14	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-16	1813628-14	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-16	1813628-14	Dibromochloromethane	5/1/2018	2.2		y	v		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-16	1813628-14	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-16	1813628-14	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-16	1813628-14	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-16	1813628-14	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-16	1813628-14	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-16	1813628-14	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-16	1813628-14	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-16	1813628-14	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-16	1813628-14	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-16	1813628-14	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-16	1813628-14	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-16	1813628-14	Chloroform	5/1/2018	3		y	v		0.50	0.14	ug/L
MW-16	1813628-14	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-16	1813628-14	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-16	1813628-14	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-16	1813628-14	n-Butylbenzene	5/1/2018	0.5		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-16	1813628-14	Bromoform	5/1/2018	2.4		y	v		0.50	0.46	ug/L
MW-16	1813628-14	Bromodichloromethane	5/1/2018	3.6		y	v		0.50	0.20	ug/L
MW-16	1813628-14	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-16	1813628-14	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-16	1813628-14	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-16	1813628-14	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-16	1813628-14	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-16	1813628-14	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-16	1813628-14	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-16	1813628-14	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-16	1813628-14	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-16	1813628-14	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-16	1813628-14	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-16	1813628-14	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-16	1813628-14	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-16	1813628-14	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-16	1813628-14	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-16	1813628-14	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-16	1813628-14	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-16	1813628-14	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-16	1813628-14	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-16	1813628-14	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-16	1813628-14	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-16	1813628-14	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-16	1813628-14	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	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-16	1813628-14	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-16	1813628-14	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-20-2	1813628-05	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-2	1813628-05	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-2	1813628-05	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-2	1813628-05	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-20-2	1813628-05	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-2	1813628-05	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-2	1813628-05	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-2	1813628-05	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-2	1813628-05	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-2	1813628-05	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-20-2	1813628-05	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-2	1813628-05	Chloroform	5/1/2018	0.15		y	v j		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	1813628-05	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-20-2	1813628-05	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-20-2	1813628-05	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-2	1813628-05	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-2	1813628-05	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-2	1813628-05	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-2	1813628-05	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-20-2	1813628-05	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-2	1813628-05	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-2	1813628-05	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-20-2	1813628-05	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-2	1813628-05	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-20-2	1813628-05	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-2	1813628-05	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-20-2	1813628-05	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-2	1813628-05	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-2	1813628-05	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-20-2	1813628-05	Carbon disulfide	5/1/2018	0.84		y	v j		1.0	0.48	ug/L
MW-20-2	1813628-05	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	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	1813628-05	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-20-2	1813628-05	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-20-2	1813628-05	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-20-2	1813628-05	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-2	1813628-05	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-2	1813628-05	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-20-2	1813628-05	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-20-2	1813628-05	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-20-2	1813628-05	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-20-2	1813628-05	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-20-2	1813628-05	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-20-2	1813628-05	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-20-2	1813628-05	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-2	1813628-05	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-20-2	1813628-05	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-20-2	1813628-05	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-2	1813628-05	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-20-2	1813628-05	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-2	1813628-05	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-20-2	1813628-05	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-2	1813628-05	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-2	1813628-05	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-2	1813628-05	Acetone	5/1/2018	10		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-20-2	1813628-05	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-20-2	1813628-05	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-2	1813628-05	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-2	1813628-05	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-2	1813628-05	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-2	1813628-05	Trichloroethene	5/1/2018	0.55		y	v		0.50	0.19	ug/L
MW-20-2	1813628-05	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-20-3	1813628-04	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-3	1813628-04	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-3	1813628-04	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-3	1813628-04	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-3	1813628-04	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-3	1813628-04	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-3	1813628-04	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-3	1813628-04	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-3	1813628-04	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-3	1813628-04	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-20-3	1813628-04	Styrene	5/1/2018	0.34		y	v j		0.50	0.12	ug/L
MW-20-3	1813628-04	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L

SDG: 1813628

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	1813628-04	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-3	1813628-04	Tetrachloroethene	5/1/2018	0.31		y	v j		0.50	0.23	ug/L
MW-20-3	1813628-04	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-3	1813628-04	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-3	1813628-04	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-3	1813628-04	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-3	1813628-04	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-3	1813628-04	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-3	1813628-04	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-3	1813628-04	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-3	1813628-04	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-3	1813628-04	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-3	1813628-04	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-20-3	1813628-04	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-20-3	1813628-04	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-3	1813628-04	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-20-3	1813628-04	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-3	1813628-04	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	1,2-Dichloroethane	5/1/2018	0.5		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-20-3	1813628-04	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-3	1813628-04	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-20-3	1813628-04	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-3	1813628-04	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-20-3	1813628-04	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-3	1813628-04	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-20-3	1813628-04	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-3	1813628-04	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-3	1813628-04	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-3	1813628-04	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-3	1813628-04	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-20-3	1813628-04	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-3	1813628-04	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-20-3	1813628-04	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-20-3	1813628-04	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-20-3	1813628-04	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-3	1813628-04	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-20-3	1813628-04	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-3	1813628-04	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-20-3	1813628-04	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-20-3	1813628-04	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-20-3	1813628-04	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-20-3	1813628-04	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	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	1813628-04	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-20-3	1813628-04	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-3	1813628-04	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-20-3	1813628-04	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-20-3	1813628-04	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-3	1813628-04	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-20-3	1813628-04	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-20-3	1813628-04	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-3	1813628-04	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-20-3	1813628-04	Carbon disulfide	5/1/2018	0.9		y	v j		1.0	0.48	ug/L
MW-20-3	1813628-04	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-20-3	1813628-04	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-20-3	1813628-04	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-20-3	1813628-04	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-20-4	1813628-03	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-4	1813628-03	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-4	1813628-03	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-20-4	1813628-03	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-4	1813628-03	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-4	1813628-03	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-4	1813628-03	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	Tetrachloroethene	5/1/2018	0.5		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-20-4	1813628-03	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-4	1813628-03	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-4	1813628-03	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-20-4	1813628-03	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-20-4	1813628-03	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-20-4	1813628-03	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-4	1813628-03	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-20-4	1813628-03	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-20-4	1813628-03	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-20-4	1813628-03	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-20-4	1813628-03	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-20-4	1813628-03	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-20-4	1813628-03	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-20-4	1813628-03	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-4	1813628-03	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-4	1813628-03	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-20-4	1813628-03	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-4	1813628-03	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-20-4	1813628-03	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-4	1813628-03	Dibromomethane	5/1/2018	0.5		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-20-4	1813628-03	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-4	1813628-03	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-4	1813628-03	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-4	1813628-03	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-4	1813628-03	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-4	1813628-03	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-4	1813628-03	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-4	1813628-03	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-4	1813628-03	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-4	1813628-03	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-4	1813628-03	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-4	1813628-03	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-4	1813628-03	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	2-Hexanone	5/1/2018	10		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-20-4	1813628-03	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-4	1813628-03	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-4	1813628-03	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-4	1813628-03	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-4	1813628-03	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-20-4	1813628-03	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-20-4	1813628-03	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-4	1813628-03	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-4	1813628-03	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-20-4	1813628-03	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-20-4	1813628-03	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-4	1813628-03	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-20-4	1813628-03	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-20-4	1813628-03	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-20-4	1813628-03	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-20-4	1813628-03	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-20-4	1813628-03	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-20-4	1813628-03	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-20-4	1813628-03	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-5	1813628-02	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-20-5	1813628-02	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-5	1813628-02	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-20-5	1813628-02	Trichlorofluoromethane	5/1/2018	0.5		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-20-5	1813628-02	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-5	1813628-02	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-5	1813628-02	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-5	1813628-02	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-5	1813628-02	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-20-5	1813628-02	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-5	1813628-02	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-5	1813628-02	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-5	1813628-02	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-5	1813628-02	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-20-5	1813628-02	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-5	1813628-02	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-20-5	1813628-02	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-5	1813628-02	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-20-5	1813628-02	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-5	1813628-02	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-20-5	1813628-02	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-20-5	1813628-02	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-20-5	1813628-02	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-5	1813628-02	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-20-5	1813628-02	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-20-5	1813628-02	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-20-5	1813628-02	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	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	1813628-02	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-20-5	1813628-02	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-5	1813628-02	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-20-5	1813628-02	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-20-5	1813628-02	Styrene	5/1/2018	0.17		y	v j		0.50	0.12	ug/L
MW-20-5	1813628-02	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-20-5	1813628-02	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-20-5	1813628-02	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-20-5	1813628-02	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-5	1813628-02	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-20-5	1813628-02	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
MW-20-5	1813628-02	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-5	1813628-02	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-5	1813628-02	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-20-5	1813628-02	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-5	1813628-02	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-5	1813628-02	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-5	1813628-02	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-20-5	1813628-02	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-20-5	1813628-02	Bromodichloromethane	5/1/2018	0.5		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-20-5	1813628-02	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-5	1813628-02	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-20-5	1813628-02	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-20-5	1813628-02	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-20-5	1813628-02	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-20-5	1813628-02	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-20-5	1813628-02	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-20-5	1813628-02	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-5	1813628-02	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-5	1813628-02	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-20-5	1813628-02	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-20-5	1813628-02	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-5	1813628-02	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-20-5	1813628-02	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-20-5	1813628-02	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-20-5	1813628-02	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-20-5	1813628-02	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-20-5	1813628-02	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-20-5	1813628-02	Pentachloroethane	5/1/2018	2		n	u	UJ	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-20-5	1813628-02	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-9	1813628-12	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-9	1813628-12	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	sec-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-9	1813628-12	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
MW-9	1813628-12	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-9	1813628-12	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
MW-9	1813628-12	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-9	1813628-12	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
MW-9	1813628-12	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
MW-9	1813628-12	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-9	1813628-12	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-9	1813628-12	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-9	1813628-12	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-9	1813628-12	1,1,1-Trichloroethane	5/1/2018	0.5		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-9	1813628-12	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-9	1813628-12	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L
MW-9	1813628-12	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-9	1813628-12	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-9	1813628-12	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
MW-9	1813628-12	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-9	1813628-12	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-9	1813628-12	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-9	1813628-12	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
MW-9	1813628-12	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
MW-9	1813628-12	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-9	1813628-12	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	ug/L
MW-9	1813628-12	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	ug/L
MW-9	1813628-12	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
MW-9	1813628-12	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
MW-9	1813628-12	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
MW-9	1813628-12	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-9	1813628-12	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
MW-9	1813628-12	Vinyl chloride	5/1/2018	0.5		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-9	1813628-12	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
MW-9	1813628-12	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
MW-9	1813628-12	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
MW-9	1813628-12	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
MW-9	1813628-12	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
MW-9	1813628-12	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
MW-9	1813628-12	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
MW-9	1813628-12	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
MW-9	1813628-12	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-9	1813628-12	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
MW-9	1813628-12	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
MW-9	1813628-12	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
MW-9	1813628-12	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
MW-9	1813628-12	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
MW-9	1813628-12	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
MW-9	1813628-12	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
MW-9	1813628-12	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
MW-9	1813628-12	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-9	1813628-12	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
MW-9	1813628-12	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
MW-9	1813628-12	1,2-Dichloropropane	5/1/2018	0.5		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-9	1813628-12	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
MW-9	1813628-12	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-9	1813628-12	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
MW-9	1813628-12	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
MW-9	1813628-12	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
MW-9	1813628-12	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
MW-9	1813628-12	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
TB-8-042718	1813628-01	1,2,4-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	1,2,3-Trichlorobenzene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
TB-8-042718	1813628-01	Toluene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	Tetrachloroethene	5/1/2018	0.5		n	u		0.50	0.23	ug/L
TB-8-042718	1813628-01	1,1,2,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	1,1,1,2-Tetrachloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
TB-8-042718	1813628-01	Styrene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
TB-8-042718	1813628-01	Methyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	Naphthalene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
TB-8-042718	1813628-01	Trichlorofluoromethane	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	Methylene chloride	5/1/2018	0.5		n	u		0.50	0.21	ug/L
TB-8-042718	1813628-01	p-Isopropyltoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	Isopropylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	Hexachlorobutadiene	5/1/2018	0.5		n	u		0.50	0.20	ug/L
TB-8-042718	1813628-01	n-Propylbenzene	5/1/2018	0.5		n	u		0.50	0.12	ug/L
TB-8-042718	1813628-01	1,1,2-Trichloro-1,2,2-trifluoroethane	5/1/2018	0.5		n	u		0.50	0.19	ug/L
TB-8-042718	1813628-01	Vinyl chloride	5/1/2018	0.5		n	u		0.50	0.18	ug/L
TB-8-042718	1813628-01	Acrylonitrile	5/1/2018	5		n	u		5.0	1.5	ug/L



SDG: 1813628

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-8-042718	1813628-01	Allyl chloride	5/1/2018	5		n	u		5.0	0.47	ug/L
TB-8-042718	1813628-01	t-Amyl Methyl ether	5/1/2018	0.5		n	u		0.50	0.19	ug/L
TB-8-042718	1813628-01	1,3,5-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	t-Butyl alcohol	5/1/2018	10		n	u		10	9.4	ug/L
TB-8-042718	1813628-01	1,1,2-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
TB-8-042718	1813628-01	Ethylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	1,1,1-Trichloroethane	5/1/2018	0.5		n	u		0.50	0.21	ug/L
TB-8-042718	1813628-01	1,2,3-Trichloropropane	5/1/2018	1		n	u		1.0	0.78	ug/L
TB-8-042718	1813628-01	trans-1,4-Dichloro-2-butene	5/1/2018	5		n	u	UJ	5.0	1.8	ug/L
TB-8-042718	1813628-01	Diethyl ether	5/1/2018	2		n	u		2.0	0.33	ug/L
TB-8-042718	1813628-01	Acetone	5/1/2018	10		n	u		10	6.6	ug/L
TB-8-042718	1813628-01	Trichloroethene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
TB-8-042718	1813628-01	1,2,4-Trimethylbenzene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	Carbon disulfide	5/1/2018	1		n	u		1.0	0.48	ug/L
TB-8-042718	1813628-01	tert-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.18	ug/L
TB-8-042718	1813628-01	1,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	4-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.093	ug/L
TB-8-042718	1813628-01	2-Chlorotoluene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	Chloromethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
TB-8-042718	1813628-01	Chloroform	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	Chloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	1,2-Dibromo-3-chloropropane	5/1/2018	1		n	u		1.0	0.89	ug/L
TB-8-042718	1813628-01	Carbon tetrachloride	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	1,2-Dibromoethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
TB-8-042718	1813628-01	sec-Butylbenzene	5/1/2018	0.5		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
TB-8-042718	1813628-01	n-Butylbenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	Bromomethane	5/1/2018	0.5		n	u	UJ	0.50	0.20	ug/L
TB-8-042718	1813628-01	Bromoform	5/1/2018	0.5		n	u		0.50	0.46	ug/L
TB-8-042718	1813628-01	Bromodichloromethane	5/1/2018	0.5		n	u		0.50	0.20	ug/L
TB-8-042718	1813628-01	Bromochloromethane	5/1/2018	0.5		n	u		0.50	0.27	ug/L
TB-8-042718	1813628-01	Bromobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	Chlorobenzene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	1,1-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
TB-8-042718	1813628-01	cis-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.14	ug/L
TB-8-042718	1813628-01	1,1-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.19	ug/L
TB-8-042718	1813628-01	2,2-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.18	ug/L
TB-8-042718	1813628-01	1,3-Dichloropropane	5/1/2018	0.5		n	u		0.50	0.13	ug/L
TB-8-042718	1813628-01	Ethyl methacrylate	5/1/2018	4		n	u		4.0	1.3	ug/L
TB-8-042718	1813628-01	trans-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	Dibromochloromethane	5/1/2018	0.5		n	u		0.50	0.22	ug/L
TB-8-042718	1813628-01	cis-1,2-Dichloroethene	5/1/2018	0.5		n	u		0.50	0.27	ug/L
TB-8-042718	1813628-01	trans-1,3-Dichloropropene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
TB-8-042718	1813628-01	1,2-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.17	ug/L
TB-8-042718	1813628-01	1,1-Dichloroethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	Dichlorodifluoromethane	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	1,4-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.15	ug/L
TB-8-042718	1813628-01	1,3-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.16	ug/L
TB-8-042718	1813628-01	1,2-Dichlorobenzene	5/1/2018	0.5		n	u		0.50	0.21	ug/L
TB-8-042718	1813628-01	Dibromomethane	5/1/2018	0.5		n	u		0.50	0.23	ug/L
TB-8-042718	1813628-01	p- & m-Xylenes	5/1/2018	0.5		n	u		0.50	0.34	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-8-042718	1813628-01	Methyl methacrylate	5/1/2018	5		n	u		5.0	1.2	ug/L
TB-8-042718	1813628-01	Propionitrile	5/1/2018	20		n	u		20	6.2	ug/L
TB-8-042718	1813628-01	Ethyl t-butyl ether	5/1/2018	0.5		n	u		0.50	0.32	ug/L
TB-8-042718	1813628-01	Benzene	5/1/2018	0.5		n	u		0.50	0.11	ug/L
TB-8-042718	1813628-01	o-Xylene	5/1/2018	0.5		n	u		0.50	0.13	ug/L
TB-8-042718	1813628-01	Pentachloroethane	5/1/2018	2		n	u	UJ	2.0	0.63	ug/L
TB-8-042718	1813628-01	Methyl isobutyl ketone	5/1/2018	10		n	u		10	2.4	ug/L
TB-8-042718	1813628-01	Methyl iodide	5/1/2018	2		n	u	UJ	2.0	1.1	ug/L
TB-8-042718	1813628-01	Methyl ethyl ketone	5/1/2018	10		n	u		10	3.3	ug/L
TB-8-042718	1813628-01	Methacrylonitrile	5/1/2018	10		n	u		10	2.3	ug/L
TB-8-042718	1813628-01	2-Hexanone	5/1/2018	10		n	u		10	5.0	ug/L
TB-8-042718	1813628-01	Hexachloroethane	5/1/2018	0.5		n	u		0.50	0.11	ug/L
TB-8-042718	1813628-01	Tetrahydrofuran	5/1/2018	20		n	u		20	5.2	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-7-2Q18	1813628-06	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
DUP-8-2Q18	1813628-09	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
EB-8-042718	1813628-07	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-1	1813628-13	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-10	1813628-15	Hexavalent Chromium	4/27/2018	0.0013		y	v j		0.0020	0.0007	mg/L
MW-12-1	1813628-11	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-12-2	1813628-10	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-12-3	1813628-08	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-20-2	1813628-05	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L

SDG: 1813628

<b>Analytical Method</b>		EPA-7196									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-20-3	1813628-04	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-20-4	1813628-03	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-20-5	1813628-02	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L
MW-9	1813628-12	Hexavalent Chromium	4/27/2018	0.002		n	u		0.0020	0.0007	mg/L

<b>Analytical Method</b>		EPA-8270D									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-16	1813628-14	1,4-Dioxane	5/9/2018	1		n	u		1.0	0.10	ug/L

<b>Analytical Method</b>		SM-2320B									
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
Dup-7-2Q18	1813628-06	Total Alkalinity as CaCO3	5/7/2018	200		y	v		4.1	4.1	mg/L
Dup-7-2Q18	1813628-06	Bicarbonate	5/7/2018	240		y	v		5.0	5.0	mg/L
Dup-7-2Q18	1813628-06	Carbonate	5/7/2018	2.5		n	u	J	2.5	2.5	mg/L
DUP-8-2Q18	1813628-09	Bicarbonate	5/7/2018	200		y	v		5.0	5.0	mg/L
DUP-8-2Q18	1813628-09	Carbonate	5/7/2018	2.5		n	u	J	2.5	2.5	mg/L
DUP-8-2Q18	1813628-09	Total Alkalinity as CaCO3	5/7/2018	160		y	v		4.1	4.1	mg/L
EB-8-042718	1813628-07	Total Alkalinity as CaCO3	5/7/2018	4.1		n	u		4.1	4.1	mg/L
EB-8-042718	1813628-07	Carbonate	5/7/2018	2.5		n	u	J	2.5	2.5	mg/L
EB-8-042718	1813628-07	Bicarbonate	5/7/2018	5		n	u		5.0	5.0	mg/L
MW-1	1813628-13	Total Alkalinity as CaCO3	5/7/2018	220		y	v		4.1	4.1	mg/L
MW-1	1813628-13	Carbonate	5/7/2018	2.5		n	u		2.5	2.5	mg/L
MW-1	1813628-13	Bicarbonate	5/7/2018	270		y	v		5.0	5.0	mg/L
MW-10	1813628-15	Bicarbonate	5/7/2018	270		y	v		10	10	mg/L
MW-10	1813628-15	Carbonate	5/7/2018	5		n	u		5.0	5.0	mg/L
MW-10	1813628-15	Total Alkalinity as CaCO3	5/7/2018	220		y	v		8.2	8.2	mg/L

SDG: 1813628

Analytical Method		SM-2320B									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-1	1813628-11	Carbonate	5/7/2018	2.5		n	u		2.5	2.5	mg/L
MW-12-1	1813628-11	Total Alkalinity as CaCO3	5/7/2018	210		y	v		4.1	4.1	mg/L
MW-12-1	1813628-11	Bicarbonate	5/7/2018	250		y	v		5.0	5.0	mg/L
MW-12-2	1813628-10	Carbonate	5/7/2018	2.5		n	u		2.5	2.5	mg/L
MW-12-2	1813628-10	Bicarbonate	5/7/2018	240		y	v		5.0	5.0	mg/L
MW-12-2	1813628-10	Total Alkalinity as CaCO3	5/7/2018	200		y	v		4.1	4.1	mg/L
MW-12-3	1813628-08	Bicarbonate	5/7/2018	210		y	v		5.0	5.0	mg/L
MW-12-3	1813628-08	Total Alkalinity as CaCO3	5/7/2018	170		y	v		4.1	4.1	mg/L
MW-12-3	1813628-08	Carbonate	5/7/2018	2.5		n	u	J	2.5	2.5	mg/L
MW-16	1813628-14	Total Alkalinity as CaCO3	5/7/2018	200		y	v		4.1	4.1	mg/L
MW-16	1813628-14	Bicarbonate	5/7/2018	240		y	v		5.0	5.0	mg/L
MW-16	1813628-14	Carbonate	5/7/2018	2.5		n	u		2.5	2.5	mg/L
MW-20-2	1813628-05	Carbonate	5/7/2018	2.5		n	u	J	2.5	2.5	mg/L
MW-20-2	1813628-05	Bicarbonate	5/7/2018	250		y	v		5.0	5.0	mg/L
MW-20-2	1813628-05	Total Alkalinity as CaCO3	5/7/2018	200		y	v		4.1	4.1	mg/L
MW-20-3	1813628-04	Carbonate	5/7/2018	11		y	v	J	2.5	2.5	mg/L
MW-20-3	1813628-04	Total Alkalinity as CaCO3	5/7/2018	78		y	v		4.1	4.1	mg/L
MW-20-3	1813628-04	Bicarbonate	5/7/2018	74		y	v		5.0	5.0	mg/L
MW-20-4	1813628-03	Bicarbonate	5/7/2018	120		y	v		5.0	5.0	mg/L
MW-20-4	1813628-03	Carbonate	5/7/2018	15		y	v	J	2.5	2.5	mg/L
MW-20-4	1813628-03	Total Alkalinity as CaCO3	5/7/2018	130		y	v		4.1	4.1	mg/L
MW-20-5	1813628-02	Total Alkalinity as CaCO3	5/8/2018	120		y	v		4.1	4.1	mg/L
MW-20-5	1813628-02	Carbonate	5/8/2018	8.4		y	v		2.5	2.5	mg/L
MW-20-5	1813628-02	Bicarbonate	5/8/2018	130		y	v		5.0	5.0	mg/L
MW-9	1813628-12	Bicarbonate	5/7/2018	210		y	v		5.0	5.0	mg/L

SDG: 1813628

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<b>Analytical Method</b>											
SM-2320B											
<b>Sample ID</b>	<b>Lab Sample ID</b>	<b>Chemical Name</b>	<b>Anal Date</b>	<b>Result</b>	<b>Report</b>	<b>Detect</b>	<b>Lab Qual</b>	<b>Val Qual</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>
MW-9	1813628-12	Carbonate	5/7/2018	2.5		n	u		2.5	2.5	mg/L
MW-9	1813628-12	Total Alkalinity as CaCO3	5/7/2018	180		y	v		4.1	4.1	mg/L

LDC #: 42287

**EDD POPULATION COMPLETENESS WORKSHEET**

Date: 7/6/18  
 Page: 1 of 1  
 2<sup>nd</sup> Reviewer: JE

The LDC job number listed above was entered by soj  
 Entered from Body or Summary

	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 reason
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	N	
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

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