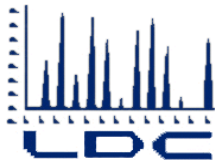


ATTACHMENT 2: DATA VALIDATION REPORTS

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



LABORATORY DATA CONSULTANTS, INC.

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

September 19, 2018

SUBJECT: NASA JPL, 3Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on August 29, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #43014:

<u>SDG #</u>	<u>Fraction</u>
1822876, 1823058 1823213, 1823367 1823695	Volatiles, Chromium, Wet Chemistry

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

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

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

Sincerely,

Pei Geng
Project Manager/Senior Chemist

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1822876

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-1-072318	1822876-01	Water	07/23/18
MW-20-5	1822876-02	Water	07/23/18
MW-20-4	1822876-03	Water	07/23/18
MW-20-3**	1822876-04**	Water	07/23/18
MW-20-2	1822876-05	Water	07/23/18
MW-19-5	1822876-06	Water	07/23/18
MW-19-4	1822876-07	Water	07/23/18
MW-19-3	1822876-08	Water	07/23/18
DUP-1-3Q18	1822876-09	Water	07/23/18
MW-19-2	1822876-10	Water	07/23/18
MW-19-1	1822876-11	Water	07/23/18
EB-1-072318	1822876-12	Water	07/23/18
SB-1-072318	1822876-13	Water	07/23/18
MW-20-2MS	1822876-05MS	Water	07/23/18
MW-20-2MSD	1822876-05MSD	Water	07/23/18

**Indicates sample underwent Level IV review

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

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

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

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	All samples in SDG 1822876	UJ (all non-detects)	P

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
07/30/18	Methyl iodide Pentachloroethane	49.8 57.0	All samples in SDG 1822876	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-1-072318 was identified as a trip blank. No contaminants were found.

Sample EB-1-072318 was identified as an equipment blank. No contaminants were found.

Sample SB-1-072318 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-19-3 and DUP-1-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-19-3	DUP-1-3Q18	
Chloroform	2.6	2.2	17
Tetrachloroethene	0.55	0.48	14
Trichloroethene	0.31	0.21	38
Bromodichloromethane	0.20U	0.22	10

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2018

Volatiles - Data Qualification Summary - SDG 1822876

Sample	Compound	Flag	A or P	Reason
TB-1-072318 MW-20-5 MW-20-4 MW-20-3** MW-20-2 MW-19-5 MW-19-4 MW-19-3 DUP-1-3Q18 MW-19-2 MW-19-1 EB-1-072318 SB-1-072318	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
TB-1-072318 MW-20-5 MW-20-4 MW-20-3** MW-20-2 MW-19-5 MW-19-4 MW-19-3 DUP-1-3Q18 MW-19-2 MW-19-1 EB-1-072318 SB-1-072318	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2018

Volatiles - Laboratory Blank Data Qualification Summary - SDG 1822876

No Sample Data Qualified in this SDG

LDC #: 43014A1

VALIDATION COMPLETENESS WORKSHEET

Date: 09/12/18

SDG #: 1822876

Level III/IV

Page: 1 of 7

Laboratory: BC Laboratories, Inc.

Reviewer: JVG

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 / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / SW	ICAL \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 = 12 SB = 13
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 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
N = Not provided/applicable
SW = See worksheet

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	B TW-1-072318	1822876-01	Water	07/23/18
2	MW-20-5	1822876-02	Water	07/23/18
3	MW-20-4	1822876-03	Water	07/23/18
4	MW-20-3**	1822876-04**	Water	07/23/18
5	MW-20-2	1822876-05	Water	07/23/18
6	MW-19-5	1822876-06	Water	07/23/18
7	MW-19-4	1822876-07	Water	07/23/18
8	MW-19-3 D	1822876-08	Water	07/23/18
9	DUP-1-3Q18 D	1822876-09	Water	07/23/18
10	MW-19-2	1822876-10	Water	07/23/18
11	MW-19-1	1822876-11	Water	07/23/18
12	EB-1-072318	1822876-12	Water	07/23/18
13	SB-1-072318	1822876-13	Water	07/23/18

LDC #: 43014A1

VALIDATION COMPLETENESS WORKSHEET

Date: 09/12/18

SDG #: 1822876

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

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

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-20-2MS	1822876-05MS	Water	07/23/18
15	MW-20-2MSD	1822876-05MSD	Water	07/23/18
16				
17				
18				

Notes:

	B020161-BLK4				

Method: Volatiles (EPA Method 524.2)

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

LDC #: 43014 A1

VALIDATION FINDINGS CHECKLIST

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

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC #: 43014A1

VALIDATION FINDINGS WORKSHEET Field Duplicates

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


METHOD: GC/MS VOA (EPA Method 524.2)

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

Compound	Concentration (ug/L)		RPD (\leq / %)
	8	9	
K	2.6	2.2	17
AA	0.55	0.48	14
S	0.31	0.21	38
P	0.20 U	0.22	10

LDC #: 43014A1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	07/12/18	Chloroform (IS1)	0.787482	0.787482	0.788753	0.788753	3.308	3.308
			Trichloroethene (IS2)	0.362797	0.362797	0.369107	0.369107	5.329	5.329
			Ethylbenzene (IS3)	2.010099	2.010099	1.949139	1.949139	6.312	6.312

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	30JUL02 MS V5	07/30/18	Chloroform (IS1)	0.788753	0.827019	0.827019	4.9	4.9
			Trichloroethene (IS2)	0.369107	0.381701	0.381701	3.4	3.4
			Ethylbenzene (IS3)	1.949139	2.037135	2.037135	4.5	4.5

LDC #: 43014 A1

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

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: # 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	10.14	101	101	0
Bromofluorobenzene	↓	10.12	101	101	↓
1,2-Dichlorobenzene-d4	↓	10.22	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					

LDC #: 43012A

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 14/15

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	26.57	26.35	106	106	105	105	0.831	0.83
Trichloroethene	↓	↓	0.47	25.95	25.73	102	102	101	101	0.851	0.85
Benzene	↓	↓	0	25.12	25.85	100	100	103	103	2.86	2.86
Toluene	↓	↓	↓	25.7	25.28	103	103	101	101	1.65	1.65
Chlorobenzene	↓	↓	↓	28.31	28.89	97.2	97.2	104	104	6.29	6.29

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 #: 43014A

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
SA = Spike added

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

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: B020161-B51

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	26.47	NA	106	106				
Trichloroethene	↓	↓	24.79	↓	99.2	99.2				
Benzene	↓	↓	25.15	↓	101	101				
Toluene	↓	↓	24.69	↓	98.8	98.8				
Chlorobenzene	↓	↓	23.82	↓	95.3	95.3				

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1822876

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1822876-02	Water	07/23/18
MW-20-4	1822876-03	Water	07/23/18
MW-20-3**	1822876-04**	Water	07/23/18
MW-20-2	1822876-05	Water	07/23/18
EB-1-072318	1822876-12	Water	07/23/18
SB-1-072318	1822876-13	Water	07/23/18
MW-20-2MS	1822876-05MS	Water	07/23/18
MW-20-2MSD	1822876-05MSD	Water	07/23/18
MW-20-2DUP	1822876-05DUP	Water	07/23/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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 method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.787 ug/L	All samples in SDG 1822876

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-20-5	Chromium	1.1 ug/L	1.1U ug/L
MW-20-4	Chromium	0.83 ug/L	0.83U ug/L
MW-20-3**	Chromium	0.93 ug/L	0.93U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-20-2	Chromium	0.66 ug/L	0.66U ug/L
EB-1-072318	Chromium	0.98 ug/L	0.98U ug/L
SB-1-072318	Chromium	0.99 ug/L	0.99U ug/L

VI. Field Blanks

Sample EB-1-072318 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-1-072318	Chromium	0.98

Sample SB-1-072318 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
SB-1-072318	Chromium	0.99

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. 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, 3Q2018
Chromium - Data Qualification Summary - SDG 1822876

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1822876

Sample	Analyte	Modified Final Concentration	A or P
MW-20-5	Chromium	1.1U ug/L	A
MW-20-4	Chromium	0.83U ug/L	A
MW-20-3**	Chromium	0.93U ug/L	A
MW-20-2	Chromium	0.66U ug/L	A
EB-1-072318	Chromium	0.98U ug/L	A
SB-1-072318	Chromium	0.99U ug/L	A

LDC #: 43014A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/11/18

SDG #: 1822876

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *ATL*

2nd Reviewer: *[Signature]*

METHOD: ^{Cr}Metals (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A.	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB=5, SB=6
VII.	Matrix Spike/Matrix Spike Duplicates	A	(7,8)
VIII.	Duplicate sample analysis	A	9
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV validation only
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-20-5	1822876-02	Water	07/23/18
2	MW-20-4	1822876-03	Water	07/23/18
3	MW-20-3**	1822876-04**	Water	07/23/18
4	MW-20-2	1822876-05	Water	07/23/18
5	EB-1-072318	1822876-12	Water	07/23/18
6	SB-1-072318	1822876-13	Water	07/23/18
7	MW-20-2MS	1822876-05MS	Water	07/23/18
8	MW-20-2MSD	1822876-05MSD	Water	07/23/18
9	MW-20-2DUP	1822876-05DUP	Water	07/23/18
10				
11				
12				
13				

Notes: _____

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

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

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

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: NA
 Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	3	4	5	6			
Cr		0.787		3.935	1.1	0.83	0.93	0.66	0.98	0.99			

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 #: 43014A4a

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV1	ICP/MS (Initial calibration) 7/25 @ 9:22	Cr	52.335	50.000	105	105	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV N	ICP/MS (Continuing calibration) 7/26 @ 03:01	Cr	40.857	40.000	102	102	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
Mg	Mass Axis	23.985	23.925	± 0.1 AMU	NA	Y
Rh	%RSD	102.9	245033.4	≤ 5% RSD	2.6	Y

Comments:

LDC #: 43014A4a

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	Mg/L Found / S / I (units)	Mg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 7/26 c 02:26	Cr	43.484	40.000	109	109	Y
7	Matrix spike 7/26 e 02:43	Cr	(SSR-SR) 39.063	40.000	97.7	97.7	Y
7/8	Duplicate 7/26 e 02:47	Cr	40.022	39.723	0.75	0.75	Y
4	Post digestion spike 7/26 e 02:50	Cr	38.428	40.000	96.1	96.1	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1822876

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1822876-02	Water	07/23/18
MW-20-4	1822876-03	Water	07/23/18
MW-20-3**	1822876-04**	Water	07/23/18
MW-20-2	1822876-05	Water	07/23/18
MW-19-5	1822876-06	Water	07/23/18
MW-19-4	1822876-07	Water	07/23/18
MW-19-3	1822876-08	Water	07/23/18
DUP-1-3Q18	1822876-09	Water	07/23/18
MW-19-2	1822876-10	Water	07/23/18
MW-19-1	1822876-11	Water	07/23/18
EB-1-072318	1822876-12	Water	07/23/18
SB-1-072318	1822876-13	Water	07/23/18
MW-20-2MS	1822876-05MS	Water	07/23/18
MW-20-2MSD	1822876-05MSD	Water	07/23/18
MW-20-2DUP	1822876-05DUP	Water	07/23/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-1-072318 was identified as an equipment blank. No contaminants were found.

Sample SB-1-072318 was identified as a source blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-19-3 and DUP-1-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-19-3	DUP-1-3Q18	
Perchlorate	2.2	2.5	13

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

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

NASA JPL, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1822876

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1822876

No Sample Data Qualified in this SDG

LDC #: 43014A6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/11/18

SDG #: 1822876

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL2nd Reviewer: ATL**METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0)**

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB=11, SB=12
VI.	Matrix Spike/Matrix Spike Duplicates	A	(13,14)
VII.	Duplicate sample analysis	A	15
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(8,7)
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-20-5	1822876-02	Water	07/23/18
2	MW-20-4	1822876-03	Water	07/23/18
3	MW-20-3**	1822876-04**	Water	07/23/18
4	MW-20-2	1822876-05	Water	07/23/18
5	MW-19-5	1822876-06	Water	07/23/18
6	MW-19-4	1822876-07	Water	07/23/18
7	MW-19-3	1822876-08	Water	07/23/18
8	DUP-1-3Q18	1822876-09	Water	07/23/18
9	MW-19-2	1822876-10	Water	07/23/18
10	MW-19-1	1822876-11	Water	07/23/18
11	EB-1-072318	1822876-12	Water	07/23/18
12	SB-1-072318	1822876-13	Water	07/23/18
13	MW-20-2MS	1822876-05MS	Water	07/23/18
14	MW-20-2MSD	1822876-05MSD	Water	07/23/18
15	MW-20-2DUP	1822876-05DUP	Water	07/23/18
16				
17				

Method: Inorganics (EPA Method *See cover*)

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

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

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference


If circled methods are applicable to each sample.

Sample ID	Parameter
1-12	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
1-4, 11, 12	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
13, 14, 15	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

LDC# 43014A6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATI
2nd Reviewer: 

Inorganics: Method See Cover

Analyte	Concentration (ug/L)		RPD	
	7	8		
Perchlorate	2.2	2.5	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43014A6.wpd

LDC #: 43014AG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1Reviewer: ATV2nd Reviewer: QMETHOD: 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 8/10 e 18:13	ClO ₄ ⁻	10.054 mg/L	10.000 mg/L	101	10	Y
13	Matrix spike sample 7/24 e 0059	Cr ⁶⁺	(SSR-SR) 0.0505 mg/L	mg/L 0.0500	101	102	Y
13/14	Duplicate sample 7/24 e 01:00	Cr ⁶⁺	0.0505 mg/L	mg/L 0.051081	1.14	0.733	Y

Comments: _____

NASA JPL, 3Q2018 - LDC#43014

SDG: 1823367

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-4-072618	1823367-09	Total Recoverable Chromium	8/3/2018	2.2	Y	y	v j	U	3.0	0.50	ug/L
MW-21-2	1823367-08	Total Recoverable Chromium	8/3/2018	1.1	Y	y	v j	U	3.0	0.50	ug/L
MW-21-3	1823367-07	Total Recoverable Chromium	8/3/2018	1.3	Y	y	v j	U	3.0	0.50	ug/L
MW-21-4	1823367-06	Total Recoverable Chromium	8/3/2018	2.2	Y	y	v j	U	3.0	0.50	ug/L
MW-21-5	1823367-05	Total Recoverable Chromium	8/3/2018	2.1	Y	y	v j	U	3.0	0.50	ug/L
MW-22-1	1823367-04	Total Recoverable Chromium	8/3/2018	1.9	Y	y	v j	U	3.0	0.50	ug/L
MW-22-2	1823367-03	Total Recoverable Chromium	8/3/2018	3.3	Y	y	v	U	3.0	0.50	ug/L
MW-22-3	1823367-02	Total Recoverable Chromium	8/3/2018	2.7	Y	y	v j	U	3.0	0.50	ug/L

Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-072618	1823367-09	Perchlorate	8/16/2018	4	Y	n	u		4.0	0.58	ug/L
MW-21-2	1823367-08	Perchlorate	8/16/2018	1.3	Y	y	v j		4.0	0.58	ug/L
MW-21-3	1823367-07	Perchlorate	8/16/2018	2.3	Y	y	v j		4.0	0.58	ug/L
MW-21-4	1823367-06	Perchlorate	8/16/2018	1.5	Y	y	v j		4.0	0.58	ug/L
MW-21-5	1823367-05	Perchlorate	8/16/2018	1.3	Y	y	v j		4.0	0.58	ug/L
MW-22-1	1823367-04	Perchlorate	8/16/2018	2.7	Y	y	v j		4.0	0.58	ug/L
MW-22-2	1823367-03	Perchlorate	8/16/2018	2.1	Y	y	v j		4.0	0.58	ug/L
MW-22-3	1823367-02	Perchlorate	8/16/2018	1.5	Y	y	v j		4.0	0.58	ug/L

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-072618	1823367-09	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-072618	1823367-09	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823367

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-4-072618	1823367-09	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-072618	1823367-09	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-072618	1823367-09	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-072618	1823367-09	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-072618	1823367-09	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-072618	1823367-09	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-072618	1823367-09	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-072618	1823367-09	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-072618	1823367-09	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-072618	1823367-09	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-072618	1823367-09	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-4-072618	1823367-09	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-072618	1823367-09	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-072618	1823367-09	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-072618	1823367-09	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-4-072618	1823367-09	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-072618	1823367-09	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823367

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-4-072618	1823367-09	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-072618	1823367-09	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	Chloroform	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-072618	1823367-09	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-4-072618	1823367-09	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
EB-4-072618	1823367-09	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
EB-4-072618	1823367-09	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
EB-4-072618	1823367-09	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
EB-4-072618	1823367-09	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
EB-4-072618	1823367-09	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
EB-4-072618	1823367-09	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-4-072618	1823367-09	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-072618	1823367-09	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
EB-4-072618	1823367-09	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
EB-4-072618	1823367-09	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
EB-4-072618	1823367-09	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-072618	1823367-09	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
EB-4-072618	1823367-09	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
EB-4-072618	1823367-09	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-4-072618	1823367-09	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
EB-4-072618	1823367-09	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823367

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-4-072618	1823367-09	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-4-072618	1823367-09	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
EB-4-072618	1823367-09	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
EB-4-072618	1823367-09	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
EB-4-072618	1823367-09	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
EB-4-072618	1823367-09	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
EB-4-072618	1823367-09	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
EB-4-072618	1823367-09	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
EB-4-072618	1823367-09	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-4-072618	1823367-09	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-072618	1823367-09	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-072618	1823367-09	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
EB-4-072618	1823367-09	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-072618	1823367-09	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-072618	1823367-09	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-072618	1823367-09	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-072618	1823367-09	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	Tetrachloroethene	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-072618	1823367-09	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-072618	1823367-09	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-072618	1823367-09	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-072618	1823367-09	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L

SDG: 1823367

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-4-072618	1823367-09	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-072618	1823367-09	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
EB-4-072618	1823367-09	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-072618	1823367-09	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-072618	1823367-09	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
EB-4-072618	1823367-09	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-072618	1823367-09	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-072618	1823367-09	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1823367-08	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-2	1823367-08	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1823367-08	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1823367-08	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1823367-08	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1823367-08	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1823367-08	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1823367-08	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1823367-08	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1823367-08	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1823367-08	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1823367-08	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1823367-08	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1823367-08	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-2	1823367-08	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823367

Analytical 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	1823367-08	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1823367-08	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1823367-08	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1823367-08	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-2	1823367-08	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-2	1823367-08	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-2	1823367-08	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1823367-08	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1823367-08	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1823367-08	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1823367-08	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-2	1823367-08	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1823367-08	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1823367-08	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	Chloroform	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1823367-08	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-2	1823367-08	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1823367-08	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
MW-21-2	1823367-08	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823367

Analytical 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	1823367-08	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-2	1823367-08	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-2	1823367-08	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-2	1823367-08	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-2	1823367-08	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1823367-08	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
MW-21-2	1823367-08	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
MW-21-2	1823367-08	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
MW-21-2	1823367-08	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-2	1823367-08	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-2	1823367-08	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
MW-21-2	1823367-08	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
MW-21-2	1823367-08	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-2	1823367-08	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1823367-08	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
MW-21-2	1823367-08	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
MW-21-2	1823367-08	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
MW-21-2	1823367-08	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
MW-21-2	1823367-08	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
MW-21-2	1823367-08	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-2	1823367-08	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
MW-21-2	1823367-08	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1823367-08	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
MW-21-2	1823367-08	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L

SDG: 1823367

Analytical 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	1823367-08	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1823367-08	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1823367-08	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1823367-08	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1823367-08	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	Tetrachloroethene	8/1/2018	0.51	Y	y	v		0.50	0.23	ug/L
MW-21-2	1823367-08	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1823367-08	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1823367-08	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1823367-08	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1823367-08	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1823367-08	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-2	1823367-08	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1823367-08	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1823367-08	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1823367-08	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
MW-21-2	1823367-08	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1823367-07	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1823367-07	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1823367-07	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823367

Analytical 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	1823367-07	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1823367-07	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1823367-07	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1823367-07	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1823367-07	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1823367-07	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1823367-07	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-3	1823367-07	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1823367-07	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1823367-07	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-3	1823367-07	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-3	1823367-07	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1823367-07	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1823367-07	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1823367-07	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823367

Analytical 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	1823367-07	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1823367-07	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1823367-07	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1823367-07	Chloroform	7/31/2018	0.36	Y	y	v j		0.50	0.14	ug/L
MW-21-3	1823367-07	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1823367-07	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-3	1823367-07	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1823367-07	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-3	1823367-07	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-3	1823367-07	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-3	1823367-07	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-3	1823367-07	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-3	1823367-07	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-3	1823367-07	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-3	1823367-07	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1823367-07	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-21-3	1823367-07	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-3	1823367-07	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-21-3	1823367-07	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-3	1823367-07	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-21-3	1823367-07	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-21-3	1823367-07	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-21-3	1823367-07	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823367

Analytical 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	1823367-07	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-21-3	1823367-07	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-21-3	1823367-07	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-21-3	1823367-07	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1823367-07	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-3	1823367-07	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-21-3	1823367-07	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-21-3	1823367-07	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-21-3	1823367-07	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-21-3	1823367-07	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1823367-07	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1823367-07	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1823367-07	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-21-3	1823367-07	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1823367-07	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1823367-07	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1823367-07	Tetrachloroethene	7/31/2018	0.74	Y	y	v		0.50	0.23	ug/L
MW-21-3	1823367-07	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1823367-07	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1823367-07	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1823367-07	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1823367-07	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-3	1823367-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823367

Analytical 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	1823367-07	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1823367-07	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1823367-07	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1823367-07	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-21-3	1823367-07	Trichloroethene	7/31/2018	0.63	Y	y	v		0.50	0.19	ug/L
MW-21-3	1823367-07	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-3	1823367-07	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1823367-07	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-4	1823367-06	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1823367-06	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1823367-06	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1823367-06	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1823367-06	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1823367-06	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1823367-06	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1823367-06	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1823367-06	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1823367-06	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823367

Analytical 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	1823367-06	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1823367-06	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1823367-06	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1823367-06	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-4	1823367-06	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-4	1823367-06	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1823367-06	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-4	1823367-06	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1823367-06	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1823367-06	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-4	1823367-06	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1823367-06	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1823367-06	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-4	1823367-06	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1823367-06	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	Chloroform	8/1/2018	5	Y	y	v		0.50	0.14	ug/L
MW-21-4	1823367-06	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1823367-06	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1823367-06	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-4	1823367-06	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1823367-06	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-4	1823367-06	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823367

Analytical 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	1823367-06	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1823367-06	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
MW-21-4	1823367-06	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-4	1823367-06	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-4	1823367-06	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-4	1823367-06	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-4	1823367-06	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1823367-06	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
MW-21-4	1823367-06	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
MW-21-4	1823367-06	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
MW-21-4	1823367-06	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-4	1823367-06	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-4	1823367-06	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
MW-21-4	1823367-06	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-4	1823367-06	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1823367-06	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
MW-21-4	1823367-06	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
MW-21-4	1823367-06	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
MW-21-4	1823367-06	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
MW-21-4	1823367-06	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
MW-21-4	1823367-06	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1823367-06	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1823367-06	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
MW-21-4	1823367-06	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1823367-06	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L

SDG: 1823367

Analytical 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	1823367-06	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1823367-06	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
MW-21-4	1823367-06	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	Tetrachloroethene	8/1/2018	0.87	Y	y	v		0.50	0.23	ug/L
MW-21-4	1823367-06	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1823367-06	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1823367-06	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1823367-06	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1823367-06	Trichloroethene	8/1/2018	0.2	Y	y	v j		0.50	0.19	ug/L
MW-21-4	1823367-06	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-4	1823367-06	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1823367-06	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-4	1823367-06	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
MW-21-4	1823367-06	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1823367-06	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1823367-06	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1823367-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1823367-06	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-4	1823367-06	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1823367-05	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823367

Analytical 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	1823367-05	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1823367-05	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1823367-05	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1823367-05	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1823367-05	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1823367-05	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1823367-05	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1823367-05	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1823367-05	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-5	1823367-05	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1823367-05	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1823367-05	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1823367-05	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1823367-05	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-5	1823367-05	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1823367-05	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823367

Analytical 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	1823367-05	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1823367-05	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1823367-05	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1823367-05	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1823367-05	Chloroform	8/1/2018	5.6	Y	y	v		0.50	0.14	ug/L
MW-21-5	1823367-05	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1823367-05	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-5	1823367-05	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1823367-05	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
MW-21-5	1823367-05	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1823367-05	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-5	1823367-05	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1823367-05	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
MW-21-5	1823367-05	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
MW-21-5	1823367-05	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-5	1823367-05	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1823367-05	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
MW-21-5	1823367-05	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
MW-21-5	1823367-05	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
MW-21-5	1823367-05	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-5	1823367-05	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
MW-21-5	1823367-05	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
MW-21-5	1823367-05	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
MW-21-5	1823367-05	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L

SDG: 1823367

Analytical 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	1823367-05	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-5	1823367-05	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1823367-05	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1823367-05	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
MW-21-5	1823367-05	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
MW-21-5	1823367-05	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
MW-21-5	1823367-05	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
MW-21-5	1823367-05	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
MW-21-5	1823367-05	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-5	1823367-05	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
MW-21-5	1823367-05	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1823367-05	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1823367-05	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1823367-05	Tetrachloroethene	8/1/2018	0.61	Y	y	v		0.50	0.23	ug/L
MW-21-5	1823367-05	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
MW-21-5	1823367-05	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1823367-05	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1823367-05	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1823367-05	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1823367-05	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
MW-21-5	1823367-05	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
MW-21-5	1823367-05	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1823367-05	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1823367-05	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823367

Analytical 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	1823367-05	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
MW-21-5	1823367-05	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
MW-21-5	1823367-05	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
MW-21-5	1823367-05	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1823367-05	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
MW-21-5	1823367-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1823367-05	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1823367-04	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1823367-04	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1823367-04	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1823367-04	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1823367-04	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1823367-04	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1823367-04	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1823367-04	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1823367-04	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823367

Analytical 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	1823367-04	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1823367-04	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1823367-04	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1823367-04	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1823367-04	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1823367-04	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-1	1823367-04	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1823367-04	Chloroform	8/1/2018	0.3	Y	y	v j		0.50	0.14	ug/L
MW-22-1	1823367-04	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1823367-04	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1823367-04	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1823367-04	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-1	1823367-04	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1823367-04	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-1	1823367-04	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1823367-04	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1823367-04	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823367

Analytical 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	1823367-04	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1823367-04	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-1	1823367-04	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-1	1823367-04	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1823367-04	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
MW-22-1	1823367-04	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
MW-22-1	1823367-04	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
MW-22-1	1823367-04	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
MW-22-1	1823367-04	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-1	1823367-04	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-1	1823367-04	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-1	1823367-04	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
MW-22-1	1823367-04	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
MW-22-1	1823367-04	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1823367-04	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
MW-22-1	1823367-04	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
MW-22-1	1823367-04	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
MW-22-1	1823367-04	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
MW-22-1	1823367-04	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
MW-22-1	1823367-04	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-1	1823367-04	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1823367-04	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-1	1823367-04	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
MW-22-1	1823367-04	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1823367-04	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L

SDG: 1823367

Analytical 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	1823367-04	Tetrachloroethene	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1823367-04	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1823367-04	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1823367-04	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1823367-04	Trichloroethene	8/1/2018	0.61	Y	y	v		0.50	0.19	ug/L
MW-22-1	1823367-04	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-1	1823367-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1823367-04	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
MW-22-1	1823367-04	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1823367-04	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1823367-04	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
MW-22-1	1823367-04	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
MW-22-1	1823367-04	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-1	1823367-04	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1823367-04	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1823367-04	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-1	1823367-04	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-2	1823367-03	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1823367-03	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1823367-03	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1823367-03	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1823367

Analytical 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	1823367-03	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1823367-03	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1823367-03	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1823367-03	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1823367-03	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1823367-03	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1823367-03	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	Chloroform	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1823367-03	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1823367-03	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1823367-03	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1823367-03	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1823367-03	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-2	1823367-03	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1823367-03	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823367

Analytical 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	1823367-03	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-2	1823367-03	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1823367-03	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-2	1823367-03	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1823367-03	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-2	1823367-03	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1823367-03	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1823367-03	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1823367-03	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1823367-03	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-2	1823367-03	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1823367-03	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
MW-22-2	1823367-03	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
MW-22-2	1823367-03	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
MW-22-2	1823367-03	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-2	1823367-03	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
MW-22-2	1823367-03	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-2	1823367-03	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-2	1823367-03	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1823367

Analytical 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	1823367-03	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
MW-22-2	1823367-03	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
MW-22-2	1823367-03	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
MW-22-2	1823367-03	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
MW-22-2	1823367-03	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
MW-22-2	1823367-03	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
MW-22-2	1823367-03	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
MW-22-2	1823367-03	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-2	1823367-03	Tetrachloroethene	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1823367-03	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
MW-22-2	1823367-03	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1823367-03	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-2	1823367-03	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-2	1823367-03	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1823367-03	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1823367-03	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1823367-03	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-2	1823367-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1823367-03	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1823367-03	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
MW-22-2	1823367-03	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1823367-03	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
MW-22-2	1823367-03	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L

SDG: 1823367

Analytical 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	1823367-03	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-2	1823367-03	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1823367-03	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1823367-03	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1823367-03	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-2	1823367-03	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-3	1823367-02	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1823367-02	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1823367-02	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1823367-02	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1823367-02	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1823367-02	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1823367-02	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1823367-02	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1823367-02	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1823367-02	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1823367-02	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1823367

Analytical 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	1823367-02	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1823367-02	Tetrachloroethene	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1823367-02	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1823367-02	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-22-3	1823367-02	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1823367-02	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1823367-02	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1823367-02	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1823367-02	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-3	1823367-02	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	Chloroform	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1823367-02	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-3	1823367-02	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1823367-02	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
MW-22-3	1823367-02	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1823367-02	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1823367

Analytical 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	1823367-02	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1823367-02	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1823367-02	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
MW-22-3	1823367-02	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1823367-02	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
MW-22-3	1823367-02	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
MW-22-3	1823367-02	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
MW-22-3	1823367-02	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
MW-22-3	1823367-02	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
MW-22-3	1823367-02	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
MW-22-3	1823367-02	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-3	1823367-02	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-22-3	1823367-02	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
MW-22-3	1823367-02	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
MW-22-3	1823367-02	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
MW-22-3	1823367-02	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
MW-22-3	1823367-02	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
MW-22-3	1823367-02	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
MW-22-3	1823367-02	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-22-3	1823367-02	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1823367-02	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-3	1823367-02	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823367

Analytical 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	1823367-02	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1823367-02	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
MW-22-3	1823367-02	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1823367-02	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1823367-02	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1823367-02	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
MW-22-3	1823367-02	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1823367-02	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1823367-02	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1823367-02	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
MW-22-3	1823367-02	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
MW-22-3	1823367-02	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
MW-22-3	1823367-02	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1823367-02	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
MW-22-3	1823367-02	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
MW-22-3	1823367-02	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1823367-02	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
MW-22-3	1823367-02	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
TB-4-072618	1823367-01	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-072618	1823367-01	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-072618	1823367-01	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-072618	1823367-01	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-072618	1823367-01	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823367

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-4-072618	1823367-01	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-072618	1823367-01	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-072618	1823367-01	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-072618	1823367-01	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-072618	1823367-01	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-072618	1823367-01	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-072618	1823367-01	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-072618	1823367-01	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-4-072618	1823367-01	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-072618	1823367-01	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-072618	1823367-01	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-072618	1823367-01	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-072618	1823367-01	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-072618	1823367-01	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-072618	1823367-01	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-4-072618	1823367-01	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-4-072618	1823367-01	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	Tetrachloroethene	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-072618	1823367-01	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-072618	1823367-01	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823367

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-4-072618	1823367-01	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-072618	1823367-01	Chloroform	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-4-072618	1823367-01	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-072618	1823367-01	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
TB-4-072618	1823367-01	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-072618	1823367-01	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-072618	1823367-01	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-072618	1823367-01	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-072618	1823367-01	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-072618	1823367-01	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-072618	1823367-01	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
TB-4-072618	1823367-01	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
TB-4-072618	1823367-01	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-072618	1823367-01	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
TB-4-072618	1823367-01	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
TB-4-072618	1823367-01	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-072618	1823367-01	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
TB-4-072618	1823367-01	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-072618	1823367-01	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1823367

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-4-072618	1823367-01	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
TB-4-072618	1823367-01	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
TB-4-072618	1823367-01	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
TB-4-072618	1823367-01	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
TB-4-072618	1823367-01	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
TB-4-072618	1823367-01	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
TB-4-072618	1823367-01	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L
TB-4-072618	1823367-01	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-4-072618	1823367-01	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-4-072618	1823367-01	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
TB-4-072618	1823367-01	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-072618	1823367-01	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-072618	1823367-01	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-072618	1823367-01	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
TB-4-072618	1823367-01	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-072618	1823367-01	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
TB-4-072618	1823367-01	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
TB-4-072618	1823367-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-072618	1823367-01	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-072618	1823367-01	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
TB-4-072618	1823367-01	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-072618	1823367-01	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
TB-4-072618	1823367-01	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
TB-4-072618	1823367-01	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L

SDG: 1823367

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-4-072618	1823367-01	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-072618	1823367-01	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
TB-4-072618	1823367-01	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-072618	1823367-01	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-072618	1823367-01	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-072618	1823367-09	Hexavalent Chromium	7/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-2	1823367-08	Hexavalent Chromium	7/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-3	1823367-07	Hexavalent Chromium	7/26/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-21-4	1823367-06	Hexavalent Chromium	7/26/2018	0.001	Y	y	v j		0.0020	0.0007	mg/L
MW-21-5	1823367-05	Hexavalent Chromium	7/26/2018	0.0013	Y	y	v j		0.0020	0.0007	mg/L
MW-22-1	1823367-04	Hexavalent Chromium	7/26/2018	0.0009	Y	y	v j		0.0020	0.0007	mg/L
MW-22-2	1823367-03	Hexavalent Chromium	7/26/2018	0.002	Y	y	v		0.0020	0.0007	mg/L
MW-22-3	1823367-02	Hexavalent Chromium	7/26/2018	0.0019	Y	y	v j		0.0020	0.0007	mg/L

NASA JPL, 3Q2018 - LDC# 34014

SDG: 1823213

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-3-072518	1823213-11	Total Recoverable Chromium	8/2/2018	1.6	Y	y	v j	U	3.0	0.50	ug/L
MW-18-2	1823213-08	Total Recoverable Chromium	8/2/2018	1.2	Y	y	v j	U	3.0	0.50	ug/L
MW-18-3	1823213-07	Total Recoverable Chromium	8/2/2018	2.9	Y	y	v j	U	3.0	0.50	ug/L
MW-18-4	1823213-06	Total Recoverable Chromium	8/2/2018	3.4	Y	y	v	U	3.0	0.50	ug/L
MW-26-1	1823213-10	Total Recoverable Chromium	8/2/2018	1.3	Y	y	v j	U	3.0	0.50	ug/L
MW-26-2	1823213-09	Total Recoverable Chromium	8/2/2018	3	Y	y	v	U	3.0	0.50	ug/L
MW-3-2	1823213-04	Total Recoverable Chromium	8/2/2018	1.1	Y	y	v j	U	3.0	0.50	ug/L
MW-3-3	1823213-03	Total Recoverable Chromium	8/2/2018	3	Y	y	v	U	3.0	0.50	ug/L
MW-3-4	1823213-02	Total Recoverable Chromium	8/2/2018	12	Y	y	v		3.0	0.50	ug/L

Analytical Method											
EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-072518	1823213-11	Perchlorate	8/15/2018	4	Y	n	u		4.0	0.58	ug/L
MW-18-2	1823213-08	Perchlorate	8/15/2018	4	Y	n	u		4.0	0.58	ug/L
MW-18-3	1823213-07	Perchlorate	8/16/2018	2.3	Y	y	v j		4.0	0.58	ug/L
MW-18-4	1823213-06	Perchlorate	8/15/2018	14	Y	y	v		4.0	0.58	ug/L
MW-18-5	1823213-05	Perchlorate	8/15/2018	4	Y	n	u		4.0	0.58	ug/L
MW-26-1	1823213-10	Perchlorate	8/15/2018	1.7	Y	y	v j	U	4.0	0.58	ug/L
MW-26-2	1823213-09	Perchlorate	8/15/2018	3.3	Y	y	v j	U	4.0	0.58	ug/L
MW-3-2	1823213-04	Perchlorate	8/15/2018	1.9	Y	y	v j		4.0	0.58	ug/L
MW-3-3	1823213-03	Perchlorate	8/15/2018	1.2	Y	y	v j		4.0	0.58	ug/L
MW-3-4	1823213-02	Perchlorate	8/15/2018	0.81	Y	y	v j		4.0	0.58	ug/L

Analytical Method											
EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units

SDG: 1823213

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-3-072518	1823213-11	Ethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	Chlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	cis-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	tert-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-072518	1823213-11	n-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	trans-1,3-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-072518	1823213-11	Bromoform	8/1/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-3-072518	1823213-11	Bromodichloromethane	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-072518	1823213-11	Bromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-072518	1823213-11	Dibromomethane	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-072518	1823213-11	Benzene	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-072518	1823213-11	Chloromethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-072518	1823213-11	Hexachlorobutadiene	8/1/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-072518	1823213-11	Isopropylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	p-Isopropyltoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	Methylene chloride	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-072518	1823213-11	Bromomethane	8/1/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-3-072518	1823213-11	Ethyl methacrylate	8/1/2018	4	Y	n	u		4.0	1.3	ug/L
EB-3-072518	1823213-11	Bromobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	2,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-072518	1823213-11	cis-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-072518	1823213-11	1,1-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-072518	1823213-11	1,2-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	1,1-Dichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	Dichlorodifluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823213

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-3-072518	1823213-11	1,2-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	1,4-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	1,3-Dichloropropane	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-072518	1823213-11	Chloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	1,2-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-072518	1823213-11	Chloroform	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	sec-Butylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-072518	1823213-11	1,1-Dichloropropene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-072518	1823213-11	Methyl iodide	8/1/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-3-072518	1823213-11	1,2-Dibromoethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-072518	1823213-11	1,2-Dibromo-3-chloropropane	8/1/2018	1	Y	n	u		1.0	0.89	ug/L
EB-3-072518	1823213-11	Dibromochloromethane	8/1/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-072518	1823213-11	4-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-3-072518	1823213-11	2-Chlorotoluene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	trans-1,2-Dichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	1,3-Dichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-072518	1823213-11	Nitrobenzene	8/1/2018	0	Y	y	v				ug/L
EB-3-072518	1823213-11	Tetrachloroethene	8/1/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-072518	1823213-11	1,1,2,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	1,1,1,2-Tetrachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-072518	1823213-11	Styrene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-072518	1823213-11	n-Propylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-072518	1823213-11	Naphthalene	8/1/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-072518	1823213-11	Propionitrile	8/1/2018	20	Y	n	u		20	6.2	ug/L
EB-3-072518	1823213-11	2-Nitropropane	8/1/2018	0	Y	y	v				ug/L

SDG: 1823213

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-3-072518	1823213-11	1,2,4-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-072518	1823213-11	Methyl acrylate	8/1/2018	0	Y	y	v				ug/L
EB-3-072518	1823213-11	1,1-Dichloropropanone	8/1/2018	0	Y	y	v				ug/L
EB-3-072518	1823213-11	1-Chlorobutane	8/1/2018	0	Y	y	v				ug/L
EB-3-072518	1823213-11	Chloroacetonitrile	8/1/2018	0	Y	y	v				ug/L
EB-3-072518	1823213-11	o-Xylene	8/1/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-072518	1823213-11	p- & m-Xylenes	8/1/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-3-072518	1823213-11	Tetrahydrofuran	8/1/2018	20	Y	n	u		20	5.2	ug/L
EB-3-072518	1823213-11	Methyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	1,3,5-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	Diethyl ether	8/1/2018	2	Y	n	u		2.0	0.33	ug/L
EB-3-072518	1823213-11	trans-1,4-Dichloro-2-butene	8/1/2018	5	Y	n	u		5.0	1.8	ug/L
EB-3-072518	1823213-11	Carbon disulfide	8/1/2018	1	Y	n	u		1.0	0.48	ug/L
EB-3-072518	1823213-11	t-Butyl alcohol	8/1/2018	10	Y	n	u		10	9.4	ug/L
EB-3-072518	1823213-11	t-Amyl Methyl ether	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-072518	1823213-11	Allyl chloride	8/1/2018	5	Y	n	u		5.0	0.47	ug/L
EB-3-072518	1823213-11	Acrylonitrile	8/1/2018	5	Y	n	u		5.0	1.5	ug/L
EB-3-072518	1823213-11	Toluene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	Carbon tetrachloride	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	1,2,3-Trichlorobenzene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-072518	1823213-11	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-072518	1823213-11	1,2,3-Trichloropropane	8/1/2018	1	Y	n	u		1.0	0.78	ug/L
EB-3-072518	1823213-11	Trichlorofluoromethane	8/1/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-072518	1823213-11	Trichloroethene	8/1/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-072518	1823213-11	1,1,2-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823213

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-3-072518	1823213-11	1,1,1-Trichloroethane	8/1/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-072518	1823213-11	1,2,4-Trimethylbenzene	8/1/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-072518	1823213-11	Acetone	8/1/2018	10	Y	n	u		10	6.6	ug/L
EB-3-072518	1823213-11	Hexachloroethane	8/1/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-072518	1823213-11	Pentachloroethane	8/1/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-3-072518	1823213-11	Ethyl t-butyl ether	8/1/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-3-072518	1823213-11	2-Hexanone	8/1/2018	10	Y	n	u		10	5.0	ug/L
EB-3-072518	1823213-11	Methacrylonitrile	8/1/2018	10	Y	n	u		10	2.3	ug/L
EB-3-072518	1823213-11	Methyl ethyl ketone	8/1/2018	10	Y	n	u		10	3.3	ug/L
EB-3-072518	1823213-11	Methyl isobutyl ketone	8/1/2018	10	Y	n	u		10	2.4	ug/L
EB-3-072518	1823213-11	Methyl methacrylate	8/1/2018	5	Y	n	u		5.0	1.2	ug/L
EB-3-072518	1823213-11	Vinyl chloride	8/1/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1823213-08	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-2	1823213-08	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1823213-08	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1823213-08	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-2	1823213-08	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-2	1823213-08	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-18-2	1823213-08	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1823213-08	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1823213-08	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1823213-08	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823213

Analytical 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	1823213-08	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-18-2	1823213-08	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1823213-08	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1823213-08	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1823213-08	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-18-2	1823213-08	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1823213-08	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-18-2	1823213-08	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-18-2	1823213-08	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-18-2	1823213-08	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-18-2	1823213-08	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-18-2	1823213-08	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-18-2	1823213-08	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1823213-08	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-2	1823213-08	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-18-2	1823213-08	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-2	1823213-08	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-2	1823213-08	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-18-2	1823213-08	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-18-2	1823213-08	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-18-2	1823213-08	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-18-2	1823213-08	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823213

Analytical 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	1823213-08	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-2	1823213-08	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1823213-08	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1823213-08	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-2	1823213-08	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1823213-08	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-2	1823213-08	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1823213-08	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-2	1823213-08	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1823213-08	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1823213-08	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1823213-08	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1823213-08	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1823213-08	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-2	1823213-08	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-2	1823213-08	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823213

Analytical 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	1823213-08	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1823213-08	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1823213-08	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1823213-08	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1823213-08	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1823213-08	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1823213-08	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1823213-08	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1823213-08	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-2	1823213-08	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1823213-08	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1823213-08	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1823213-08	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1823213-08	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1823213-08	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1823213-08	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1823213-08	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-2	1823213-08	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-2	1823213-08	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-3	1823213-07	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823213

Analytical 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	1823213-07	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-3	1823213-07	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-18-3	1823213-07	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1823213-07	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1823213-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1823213-07	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-3	1823213-07	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-18-3	1823213-07	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1823213-07	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-3	1823213-07	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1823213-07	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1823213-07	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1823213-07	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1823213-07	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1823213-07	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1823213-07	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1823213-07	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-18-3	1823213-07	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-18-3	1823213-07	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-18-3	1823213-07	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-18-3	1823213-07	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-18-3	1823213-07	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L

SDG: 1823213

Analytical 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	1823213-07	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1823213-07	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-3	1823213-07	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-18-3	1823213-07	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-18-3	1823213-07	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-3	1823213-07	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-3	1823213-07	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-18-3	1823213-07	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-18-3	1823213-07	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-18-3	1823213-07	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1823213-07	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-3	1823213-07	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-3	1823213-07	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-3	1823213-07	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-18-3	1823213-07	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1823213-07	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1823213-07	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-3	1823213-07	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1823213-07	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-3	1823213-07	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1823213-07	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1823213-07	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1823213

Analytical 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	1823213-07	Carbon tetrachloride	7/31/2018	0.32	Y	y	v j		0.50	0.17	ug/L
MW-18-3	1823213-07	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1823213-07	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1823213-07	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-3	1823213-07	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1823213-07	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1823213-07	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1823213-07	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-3	1823213-07	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-3	1823213-07	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1823213-07	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1823213-07	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1823213-07	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1823213-07	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1823213-07	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1823213-07	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1823213-07	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1823213-07	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1823213-07	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823213

Analytical 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	1823213-07	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1823213-07	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1823213-07	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1823213-07	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1823213-07	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1823213-07	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1823213-07	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1823213-07	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-3	1823213-07	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-4	1823213-06	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-4	1823213-06	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-18-4	1823213-06	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1823213-06	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-4	1823213-06	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-4	1823213-06	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-18-4	1823213-06	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1823213-06	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1823213-06	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-4	1823213-06	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-18-4	1823213-06	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	Trichloroethene	7/31/2018	0.67	Y	y	v		0.50	0.19	ug/L

SDG: 1823213

Analytical 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	1823213-06	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1823213-06	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1823213-06	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-4	1823213-06	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-4	1823213-06	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-4	1823213-06	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1823213-06	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-4	1823213-06	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-18-4	1823213-06	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-18-4	1823213-06	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-18-4	1823213-06	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-18-4	1823213-06	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-18-4	1823213-06	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-18-4	1823213-06	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1823213-06	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-4	1823213-06	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-4	1823213-06	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-18-4	1823213-06	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-4	1823213-06	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-4	1823213-06	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-18-4	1823213-06	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-4	1823213-06	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L

SDG: 1823213

Analytical 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	1823213-06	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-18-4	1823213-06	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-18-4	1823213-06	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1823213-06	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-4	1823213-06	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-4	1823213-06	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-18-4	1823213-06	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1823213-06	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1823213-06	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1823213-06	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-4	1823213-06	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1823213-06	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1823213-06	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1823213-06	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1823213-06	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1823213-06	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1823213-06	Tetrachloroethene	7/31/2018	0.46	Y	y	v j		0.50	0.23	ug/L
MW-18-4	1823213-06	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1823213-06	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1823213-06	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1823213-06	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1823213-06	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823213

Analytical 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	1823213-06	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1823213-06	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1823213-06	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1823213-06	Chloroform	7/31/2018	0.61	Y	y	v		0.50	0.14	ug/L
MW-18-4	1823213-06	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1823213-06	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1823213-06	Carbon tetrachloride	7/31/2018	1.4	Y	y	v		0.50	0.17	ug/L
MW-18-4	1823213-06	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1823213-06	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1823213-06	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1823213-06	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-4	1823213-06	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1823213-06	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1823213-06	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1823213-06	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1823213-06	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1823213-06	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-4	1823213-06	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1823213-06	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-5	1823213-05	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823213

Analytical 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	1823213-05	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-18-5	1823213-05	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-18-5	1823213-05	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-18-5	1823213-05	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1823213-05	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-18-5	1823213-05	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-18-5	1823213-05	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-18-5	1823213-05	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1823213-05	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-5	1823213-05	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1823213-05	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-5	1823213-05	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1823213-05	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-18-5	1823213-05	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1823213-05	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1823213-05	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1823213-05	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1823213-05	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1823213-05	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1823213-05	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1823213-05	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823213

Analytical 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	1823213-05	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1823213-05	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-18-5	1823213-05	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-18-5	1823213-05	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-18-5	1823213-05	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1823213-05	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1823213-05	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-5	1823213-05	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1823213-05	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-18-5	1823213-05	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1823213-05	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1823213-05	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1823213-05	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1823213-05	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1823213-05	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1823213-05	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1823213-05	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1823213-05	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L

SDG: 1823213

Analytical 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	1823213-05	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1823213-05	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1823213-05	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1823213-05	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1823213-05	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-5	1823213-05	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-18-5	1823213-05	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-18-5	1823213-05	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-18-5	1823213-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1823213-05	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-18-5	1823213-05	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1823213-05	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1823213-05	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1823213-05	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-18-5	1823213-05	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1823213-05	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1823213-05	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1823213-05	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1823213-05	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1823213-05	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1823213-05	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823213

Analytical 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	1823213-05	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-18-5	1823213-05	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1823213-05	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-18-5	1823213-05	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1823213-05	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-18-5	1823213-05	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-18-5	1823213-05	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-18-5	1823213-05	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-5	1823213-05	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-5	1823213-05	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-26-1	1823213-10	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1823213-10	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-26-1	1823213-10	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-26-1	1823213-10	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-26-1	1823213-10	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-1	1823213-10	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-26-1	1823213-10	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-1	1823213-10	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L

SDG: 1823213

Analytical 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	1823213-10	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-26-1	1823213-10	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-26-1	1823213-10	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-26-1	1823213-10	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-26-1	1823213-10	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1823213-10	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1823213-10	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-1	1823213-10	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-26-1	1823213-10	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1823213-10	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-1	1823213-10	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1823213-10	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	Chloroform	7/31/2018	0.23	Y	y	v j		0.50	0.14	ug/L
MW-26-1	1823213-10	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1823213-10	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-26-1	1823213-10	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-1	1823213-10	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L

SDG: 1823213

Analytical 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	1823213-10	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-26-1	1823213-10	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-26-1	1823213-10	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1823213-10	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1823213-10	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-1	1823213-10	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-1	1823213-10	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-1	1823213-10	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1823213-10	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-26-1	1823213-10	Tetrachloroethene	7/31/2018	0.4	Y	y	v j		0.50	0.23	ug/L
MW-26-1	1823213-10	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-26-1	1823213-10	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1823213-10	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1823213-10	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-26-1	1823213-10	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1823213-10	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-26-1	1823213-10	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-26-1	1823213-10	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-26-1	1823213-10	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-26-1	1823213-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823213

Analytical 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	1823213-10	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1823213-10	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-26-1	1823213-10	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-26-1	1823213-10	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-26-1	1823213-10	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1823213-10	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-1	1823213-10	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-26-1	1823213-10	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1823213-10	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-1	1823213-10	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-1	1823213-10	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-1	1823213-10	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-1	1823213-10	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1823213-10	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-1	1823213-10	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-1	1823213-10	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-1	1823213-10	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-1	1823213-10	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-26-2	1823213-09	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-26-2	1823213-09	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L

SDG: 1823213

Analytical 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	1823213-09	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1823213-09	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-26-2	1823213-09	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-26-2	1823213-09	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-26-2	1823213-09	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-26-2	1823213-09	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-26-2	1823213-09	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-26-2	1823213-09	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-26-2	1823213-09	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-26-2	1823213-09	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-26-2	1823213-09	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-26-2	1823213-09	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-26-2	1823213-09	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-26-2	1823213-09	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-26-2	1823213-09	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1823213-09	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1823213-09	Tetrachloroethene	7/31/2018	1.8	Y	y	v		0.50	0.23	ug/L
MW-26-2	1823213-09	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1823213-09	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1823213-09	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-2	1823213-09	Trichloroethene	7/31/2018	0.24	Y	y	v j		0.50	0.19	ug/L
MW-26-2	1823213-09	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823213

Analytical 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	1823213-09	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-26-2	1823213-09	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-26-2	1823213-09	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-2	1823213-09	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-26-2	1823213-09	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-26-2	1823213-09	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-26-2	1823213-09	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-26-2	1823213-09	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-26-2	1823213-09	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-26-2	1823213-09	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1823213-09	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1823213-09	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-26-2	1823213-09	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1823213-09	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1823213-09	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1823213-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-26-2	1823213-09	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-26-2	1823213-09	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-26-2	1823213-09	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823213

Analytical 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	1823213-09	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1823213-09	Chloroform	7/31/2018	1.8	Y	y	v		0.50	0.14	ug/L
MW-26-2	1823213-09	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1823213-09	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1823213-09	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-26-2	1823213-09	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1823213-09	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-2	1823213-09	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-26-2	1823213-09	Bromodichloromethane	7/31/2018	0.22	Y	y	v j		0.50	0.20	ug/L
MW-26-2	1823213-09	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-2	1823213-09	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-26-2	1823213-09	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-26-2	1823213-09	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1823213-09	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-26-2	1823213-09	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-26-2	1823213-09	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1823213-09	cis-1,2-Dichloroethene	7/31/2018	0.32	Y	y	v j		0.50	0.27	ug/L
MW-26-2	1823213-09	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-26-2	1823213-09	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-26-2	1823213-09	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823213

Analytical 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	1823213-09	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-26-2	1823213-09	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-26-2	1823213-09	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-26-2	1823213-09	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-26-2	1823213-09	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-26-2	1823213-09	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-26-2	1823213-09	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-26-2	1823213-09	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-26-2	1823213-09	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1823213-04	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1823213-04	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1823213-04	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1823213-04	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-3-2	1823213-04	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1823213-04	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1823213-04	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1823213-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1823213-04	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1823213-04	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1823213-04	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823213

Analytical 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	1823213-04	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1823213-04	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1823213-04	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1823213-04	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1823213-04	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-2	1823213-04	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1823213-04	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1823213-04	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-2	1823213-04	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-2	1823213-04	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1823213-04	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1823213-04	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-2	1823213-04	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1823213-04	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-2	1823213-04	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-3-2	1823213-04	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1823213-04	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823213

Analytical 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	1823213-04	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1823213-04	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1823213-04	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1823213-04	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-2	1823213-04	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-2	1823213-04	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-2	1823213-04	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-2	1823213-04	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-2	1823213-04	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1823213-04	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-3-2	1823213-04	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-3-2	1823213-04	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1823213-04	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-2	1823213-04	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1823213-04	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-3-2	1823213-04	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-3-2	1823213-04	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-3-2	1823213-04	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-2	1823213-04	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1823213-04	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-3-2	1823213-04	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-3-2	1823213-04	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-3-2	1823213-04	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L

SDG: 1823213

Analytical 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	1823213-04	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-3-2	1823213-04	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-3-2	1823213-04	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1823213-04	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1823213-04	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-2	1823213-04	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1823213-04	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1823213-04	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1823213-04	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1823213-04	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1823213-04	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1823213-04	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-2	1823213-04	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1823213-04	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-3-2	1823213-04	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1823213-04	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-2	1823213-04	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-3	1823213-03	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1823213-03	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1823213-03	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823213

Analytical 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	1823213-03	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1823213-03	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1823213-03	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1823213-03	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1823213-03	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1823213-03	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1823213-03	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1823213-03	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1823213-03	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-3	1823213-03	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1823213-03	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1823213-03	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1823213-03	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1823213-03	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1823213-03	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-3	1823213-03	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823213

Analytical 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	1823213-03	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1823213-03	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1823213-03	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1823213-03	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1823213-03	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-3	1823213-03	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1823213-03	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1823213-03	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1823213-03	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-3-3	1823213-03	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-3	1823213-03	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1823213-03	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1823213-03	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1823213-03	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1823213-03	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-3	1823213-03	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1823213-03	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-3-3	1823213-03	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-3-3	1823213-03	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-3-3	1823213-03	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-3-3	1823213-03	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L

SDG: 1823213

Analytical 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	1823213-03	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-3	1823213-03	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-3	1823213-03	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-3	1823213-03	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-3-3	1823213-03	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-3-3	1823213-03	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-3-3	1823213-03	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-3-3	1823213-03	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-3-3	1823213-03	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-3-3	1823213-03	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-3	1823213-03	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1823213-03	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-3-3	1823213-03	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1823213-03	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1823213-03	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-3-3	1823213-03	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-3	1823213-03	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1823213-03	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1823213-03	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1823213-03	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1823213-03	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-3	1823213-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1823213-03	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1823213-03	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-3	1823213-03	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L

SDG: 1823213

Analytical 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	1823213-03	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1823213-03	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-3-3	1823213-03	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1823213-03	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-3	1823213-03	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-3-3	1823213-03	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-3-3	1823213-03	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1823213-03	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	1,1-Dichloroethane	7/31/2018	0.17	Y	y	v j		0.50	0.15	ug/L
MW-3-4	1823213-02	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1823213-02	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1823213-02	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1823213-02	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1823213-02	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1823213-02	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1823213-02	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1823213-02	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1823213-02	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1823213-02	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823213

Analytical 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	1823213-02	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1823213-02	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1823213-02	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1823213-02	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1823213-02	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-3-4	1823213-02	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1823213-02	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1823213-02	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1823213-02	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-4	1823213-02	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1823213-02	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1823213-02	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1823213-02	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-4	1823213-02	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1823213-02	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L

SDG: 1823213

Analytical 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	1823213-02	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1823213-02	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1823213-02	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1823213-02	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1823213-02	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-3-4	1823213-02	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1823213-02	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-3-4	1823213-02	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-3-4	1823213-02	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-3-4	1823213-02	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-3-4	1823213-02	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-3-4	1823213-02	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-3-4	1823213-02	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-4	1823213-02	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-4	1823213-02	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-3-4	1823213-02	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-3-4	1823213-02	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-3-4	1823213-02	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-3-4	1823213-02	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-3-4	1823213-02	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-3-4	1823213-02	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-4	1823213-02	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1823213-02	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1823213

Analytical 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	1823213-02	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1823213-02	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1823213-02	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-3-4	1823213-02	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1823213-02	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1823213-02	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1823213-02	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-3-4	1823213-02	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1823213-02	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1823213-02	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1823213-02	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-3-4	1823213-02	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-3-4	1823213-02	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-3-4	1823213-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1823213-02	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-3-4	1823213-02	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-3-4	1823213-02	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1823213-02	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-3-4	1823213-02	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
TB-3-072518	1823213-01	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-072518	1823213-01	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-072518	1823213-01	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-072518	1823213-01	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823213

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-3-072518	1823213-01	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-072518	1823213-01	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-072518	1823213-01	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-072518	1823213-01	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-072518	1823213-01	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-072518	1823213-01	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-072518	1823213-01	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-072518	1823213-01	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-072518	1823213-01	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-072518	1823213-01	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-072518	1823213-01	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-072518	1823213-01	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-3-072518	1823213-01	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-3-072518	1823213-01	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-3-072518	1823213-01	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823213

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-3-072518	1823213-01	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-072518	1823213-01	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-072518	1823213-01	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-072518	1823213-01	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-3-072518	1823213-01	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-072518	1823213-01	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
TB-3-072518	1823213-01	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-072518	1823213-01	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-072518	1823213-01	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-072518	1823213-01	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-072518	1823213-01	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
TB-3-072518	1823213-01	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
TB-3-072518	1823213-01	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
TB-3-072518	1823213-01	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-072518	1823213-01	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
TB-3-072518	1823213-01	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
TB-3-072518	1823213-01	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L

SDG: 1823213

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-3-072518	1823213-01	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
TB-3-072518	1823213-01	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
TB-3-072518	1823213-01	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-072518	1823213-01	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
TB-3-072518	1823213-01	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
TB-3-072518	1823213-01	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
TB-3-072518	1823213-01	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
TB-3-072518	1823213-01	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
TB-3-072518	1823213-01	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
TB-3-072518	1823213-01	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-3-072518	1823213-01	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-072518	1823213-01	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-3-072518	1823213-01	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-3-072518	1823213-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-072518	1823213-01	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-072518	1823213-01	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-072518	1823213-01	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-072518	1823213-01	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-072518	1823213-01	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
TB-3-072518	1823213-01	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-072518	1823213-01	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-072518	1823213-01	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-072518	1823213-01	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-072518	1823213-01	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
TB-3-072518	1823213-01	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L

SDG: 1823213

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-3-072518	1823213-01	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
TB-3-072518	1823213-01	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-072518	1823213-01	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
TB-3-072518	1823213-01	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
TB-3-072518	1823213-01	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
TB-3-072518	1823213-01	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
TB-3-072518	1823213-01	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-072518	1823213-11	Hexavalent Chromium	7/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-18-2	1823213-08	Hexavalent Chromium	7/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-18-3	1823213-07	Hexavalent Chromium	7/25/2018	0.0017	Y	y	v j		0.0020	0.0007	mg/L
MW-18-4	1823213-06	Hexavalent Chromium	7/25/2018	0.002	Y	y	v		0.0020	0.0007	mg/L
MW-26-1	1823213-10	Hexavalent Chromium	7/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-26-2	1823213-09	Hexavalent Chromium	7/25/2018	0.0015	Y	y	v j		0.0020	0.0007	mg/L
MW-3-2	1823213-04	Hexavalent Chromium	7/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-3-3	1823213-03	Hexavalent Chromium	7/25/2018	0.0011	Y	y	v j		0.0020	0.0007	mg/L
MW-3-4	1823213-02	Hexavalent Chromium	7/25/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

NASA JPL, 3Q2018 - LDC# 43014

SDG: 1823058

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-3Q18	1823058-11	Total Recoverable Chromium	7/31/2018	2.5	Y	y	v j	U	3.0	0.50	ug/L
EB-2-072418	1823058-12	Total Recoverable Chromium	7/31/2018	0.96	Y	y	v j	U	3.0	0.50	ug/L
MW-14-2	1823058-05	Total Recoverable Chromium	7/31/2018	1.3	Y	y	v j	U	3.0	0.50	ug/L
MW-14-3	1823058-04	Total Recoverable Chromium	7/31/2018	1.4	Y	y	v j	U	3.0	0.50	ug/L
MW-25-1	1823058-10	Total Recoverable Chromium	7/31/2018	2.7	Y	y	v j	U	3.0	0.50	ug/L
MW-25-2	1823058-09	Total Recoverable Chromium	7/31/2018	4	Y	y	v	U	3.0	0.50	ug/L
MW-25-3	1823058-08	Total Recoverable Chromium	7/31/2018	4.3	Y	y	v	U	3.0	0.50	ug/L
MW-25-4	1823058-07	Total Recoverable Chromium	7/31/2018	3	Y	y	v	U	3.0	0.50	ug/L
MW-25-5	1823058-06	Total Recoverable Chromium	7/31/2018	1.3	Y	y	v j	U	3.0	0.50	ug/L

Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-3Q18	1823058-11	Perchlorate	8/15/2018	6.1	Y	y	v		4.0	0.58	ug/L
EB-2-072418	1823058-12	Perchlorate	8/15/2018	4	Y	n	u		4.0	0.58	ug/L
MW-14-2	1823058-05	Perchlorate	8/15/2018	3.4	Y	y	v j		4.0	0.58	ug/L
MW-14-3	1823058-04	Perchlorate	8/15/2018	4.1	Y	y	v		4.0	0.58	ug/L
MW-14-4	1823058-03	Perchlorate	8/15/2018	3.5	Y	y	v j		4.0	0.58	ug/L
MW-14-5	1823058-02	Perchlorate	8/15/2018	4	Y	n	u		4.0	0.58	ug/L
MW-25-1	1823058-10	Perchlorate	8/15/2018	7.1	Y	y	v		4.0	0.58	ug/L
MW-25-2	1823058-09	Perchlorate	8/15/2018	13	Y	y	v		4.0	0.58	ug/L
MW-25-3	1823058-08	Perchlorate	8/15/2018	8.8	Y	y	v		4.0	0.58	ug/L
MW-25-4	1823058-07	Perchlorate	8/15/2018	8.3	Y	y	v		4.0	0.58	ug/L
MW-25-5	1823058-06	Perchlorate	8/15/2018	4	Y	n	u		4.0	0.58	ug/L

SDG: 1823058

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-2-3Q18	1823058-11	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-2-3Q18	1823058-11	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-2-3Q18	1823058-11	Methyl t-butyl ether	7/31/2018	0.35	Y	y	v j		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-3Q18	1823058-11	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-3Q18	1823058-11	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-3Q18	1823058-11	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-3Q18	1823058-11	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-3Q18	1823058-11	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-2-3Q18	1823058-11	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-2-3Q18	1823058-11	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-2-3Q18	1823058-11	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-2-3Q18	1823058-11	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
DUP-2-3Q18	1823058-11	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-3Q18	1823058-11	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823058

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-2-3Q18	1823058-11	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-2-3Q18	1823058-11	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-3Q18	1823058-11	Trichloroethene	7/31/2018	0.88	Y	y	v		0.50	0.19	ug/L
DUP-2-3Q18	1823058-11	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-3Q18	1823058-11	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-3Q18	1823058-11	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-3Q18	1823058-11	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-3Q18	1823058-11	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-2-3Q18	1823058-11	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-2-3Q18	1823058-11	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-3Q18	1823058-11	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-2-3Q18	1823058-11	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-2-3Q18	1823058-11	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-3Q18	1823058-11	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-3Q18	1823058-11	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
DUP-2-3Q18	1823058-11	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
DUP-2-3Q18	1823058-11	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
DUP-2-3Q18	1823058-11	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
DUP-2-3Q18	1823058-11	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
DUP-2-3Q18	1823058-11	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L

SDG: 1823058

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-2-3Q18	1823058-11	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-2-3Q18	1823058-11	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-2-3Q18	1823058-11	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-2-3Q18	1823058-11	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-3Q18	1823058-11	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-2-3Q18	1823058-11	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-2-3Q18	1823058-11	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-2-3Q18	1823058-11	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-2-3Q18	1823058-11	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-2-3Q18	1823058-11	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-3Q18	1823058-11	Chloroform	7/31/2018	0.41	Y	y	v j		0.50	0.14	ug/L
DUP-2-3Q18	1823058-11	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-2-3Q18	1823058-11	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-2-3Q18	1823058-11	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
DUP-2-3Q18	1823058-11	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-2-3Q18	1823058-11	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-2-3Q18	1823058-11	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-2-3Q18	1823058-11	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
DUP-2-3Q18	1823058-11	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-2-3Q18	1823058-11	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L

SDG: 1823058

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-2-3Q18	1823058-11	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
DUP-2-3Q18	1823058-11	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-2-3Q18	1823058-11	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-2-3Q18	1823058-11	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
DUP-2-3Q18	1823058-11	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-2-3Q18	1823058-11	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
DUP-2-3Q18	1823058-11	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-2-3Q18	1823058-11	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-2-3Q18	1823058-11	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-2-3Q18	1823058-11	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-2-3Q18	1823058-11	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
DUP-2-3Q18	1823058-11	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
EB-2-072418	1823058-12	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-2-072418	1823058-12	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-072418	1823058-12	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-072418	1823058-12	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-072418	1823058-12	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-072418	1823058-12	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-072418	1823058-12	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-072418	1823058-12	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-072418	1823058-12	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-072418	1823058-12	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-072418	1823058-12	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
EB-2-072418	1823058-12	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-072418	1823058-12	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1823058

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-2-072418	1823058-12	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-2-072418	1823058-12	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
EB-2-072418	1823058-12	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-2-072418	1823058-12	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
EB-2-072418	1823058-12	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-072418	1823058-12	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
EB-2-072418	1823058-12	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
EB-2-072418	1823058-12	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
EB-2-072418	1823058-12	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
EB-2-072418	1823058-12	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
EB-2-072418	1823058-12	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
EB-2-072418	1823058-12	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
EB-2-072418	1823058-12	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
EB-2-072418	1823058-12	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
EB-2-072418	1823058-12	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-072418	1823058-12	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-2-072418	1823058-12	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
EB-2-072418	1823058-12	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
EB-2-072418	1823058-12	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-2-072418	1823058-12	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-2-072418	1823058-12	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
EB-2-072418	1823058-12	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-072418	1823058-12	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
EB-2-072418	1823058-12	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
EB-2-072418	1823058-12	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L

SDG: 1823058

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-2-072418	1823058-12	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-072418	1823058-12	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-072418	1823058-12	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-072418	1823058-12	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-072418	1823058-12	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
EB-2-072418	1823058-12	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-072418	1823058-12	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-072418	1823058-12	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-072418	1823058-12	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-072418	1823058-12	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-072418	1823058-12	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-072418	1823058-12	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-072418	1823058-12	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-072418	1823058-12	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-072418	1823058-12	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-072418	1823058-12	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
EB-2-072418	1823058-12	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-072418	1823058-12	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
EB-2-072418	1823058-12	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-072418	1823058-12	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-072418	1823058-12	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-072418	1823058-12	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-072418	1823058-12	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-072418	1823058-12	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-072418	1823058-12	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1823058

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-2-072418	1823058-12	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L	
EB-2-072418	1823058-12	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-2-072418	1823058-12	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L	
EB-2-072418	1823058-12	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L	
EB-2-072418	1823058-12	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L	
EB-2-072418	1823058-12	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L	
EB-2-072418	1823058-12	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-2-072418	1823058-12	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L	
EB-2-072418	1823058-12	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-2-072418	1823058-12	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-2-072418	1823058-12	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L	
EB-2-072418	1823058-12	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L	
EB-2-072418	1823058-12	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L	
EB-2-072418	1823058-12	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L	
EB-2-072418	1823058-12	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L	
EB-2-072418	1823058-12	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-2-072418	1823058-12	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L	
EB-2-072418	1823058-12	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L	
EB-2-072418	1823058-12	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L	
EB-2-072418	1823058-12	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L	
EB-2-072418	1823058-12	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L	
EB-2-072418	1823058-12	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L	
EB-2-072418	1823058-12	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L	
EB-2-072418	1823058-12	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-14-2	1823058-05	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L	

SDG: 1823058

Analytical 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	1823058-05	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1823058-05	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-2	1823058-05	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-14-2	1823058-05	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-14-2	1823058-05	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-2	1823058-05	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-14-2	1823058-05	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-14-2	1823058-05	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-14-2	1823058-05	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-14-2	1823058-05	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-14-2	1823058-05	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-14-2	1823058-05	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-14-2	1823058-05	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-14-2	1823058-05	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1823058-05	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1823058-05	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-2	1823058-05	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1823058-05	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-14-2	1823058-05	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1823058-05	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1823058-05	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1823058-05	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1823058-05	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1823058-05	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-2	1823058-05	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823058

Analytical 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	1823058-05	1,1-Dichloroethane	7/30/2018	0.16	Y	y	v j		0.50	0.15	ug/L
MW-14-2	1823058-05	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1823058-05	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1823058-05	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1823058-05	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-2	1823058-05	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1823058-05	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1823058-05	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1823058-05	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1823058-05	Chloroform	7/30/2018	0.43	Y	y	v j		0.50	0.14	ug/L
MW-14-2	1823058-05	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1823058-05	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1823058-05	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1823058-05	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1823058-05	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1823058-05	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1823058-05	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823058

Analytical 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	1823058-05	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-2	1823058-05	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1823058-05	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-2	1823058-05	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1823058-05	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1823058-05	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-2	1823058-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1823058-05	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1823058-05	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1823058-05	Trichloroethene	7/30/2018	1.2	Y	y	v		0.50	0.19	ug/L
MW-14-2	1823058-05	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-2	1823058-05	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-2	1823058-05	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1823058-05	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1823058-05	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-2	1823058-05	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-2	1823058-05	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-2	1823058-05	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-2	1823058-05	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-2	1823058-05	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-14-2	1823058-05	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1823058-05	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1823058

Analytical 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	1823058-05	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1823058-05	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-14-2	1823058-05	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1823058-05	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-2	1823058-05	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	Tetrachloroethene	7/30/2018	0.33	Y	y	v j		0.50	0.23	ug/L
MW-14-2	1823058-05	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1823058-05	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1823058-05	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1823058-05	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1823058-05	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1823058-04	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1823058-04	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1823058-04	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1823058-04	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1823058-04	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1823058-04	Tetrachloroethene	7/30/2018	0.54	Y	y	v		0.50	0.23	ug/L
MW-14-3	1823058-04	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1823058-04	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1823058-04	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1823058-04	Trichloroethene	7/30/2018	1	Y	y	v		0.50	0.19	ug/L

SDG: 1823058

Analytical 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	1823058-04	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1823058-04	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1823058-04	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	1,1-Dichloroethane	7/30/2018	0.32	Y	y	v j		0.50	0.15	ug/L
MW-14-3	1823058-04	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1823058-04	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1823058-04	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-14-3	1823058-04	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-3	1823058-04	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1823058-04	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1823058-04	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1823058-04	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-3	1823058-04	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-14-3	1823058-04	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-14-3	1823058-04	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-3	1823058-04	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1823058-04	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L

SDG: 1823058

Analytical 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	1823058-04	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-14-3	1823058-04	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-14-3	1823058-04	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-14-3	1823058-04	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-14-3	1823058-04	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1823058-04	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1823058-04	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1823058-04	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-3	1823058-04	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1823058-04	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1823058-04	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-14-3	1823058-04	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-3	1823058-04	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1823058-04	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-14-3	1823058-04	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-3	1823058-04	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-3	1823058-04	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1823058-04	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-3	1823058-04	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-3	1823058-04	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-14-3	1823058-04	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-3	1823058-04	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L

SDG: 1823058

Analytical 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	1823058-04	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-3	1823058-04	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1823058-04	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-14-3	1823058-04	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-14-3	1823058-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1823058-04	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-14-3	1823058-04	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1823058-04	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1823058-04	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1823058-04	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1823058-04	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1823058-04	Chloroform	7/30/2018	0.45	Y	y	v j		0.50	0.14	ug/L
MW-14-3	1823058-04	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1823058-04	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1823058-04	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-3	1823058-04	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1823058-04	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-3	1823058-04	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1823058-04	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-3	1823058-04	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-3	1823058-04	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823058

Analytical 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	1823058-03	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1823058-03	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1823058-03	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1823058-03	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1823058-03	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1823058-03	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1823058-03	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1823058-03	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1823058-03	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1823058-03	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1823058-03	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1823058-03	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1823058-03	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1823058-03	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1823058-03	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L

SDG: 1823058

Analytical 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	1823058-03	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-4	1823058-03	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1823058-03	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1823058-03	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1823058-03	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1823058-03	Chloroform	7/31/2018	0.16	Y	y	v j		0.50	0.14	ug/L
MW-14-4	1823058-03	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1823058-03	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-4	1823058-03	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1823058-03	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-4	1823058-03	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1823058-03	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-14-4	1823058-03	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-4	1823058-03	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-4	1823058-03	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-4	1823058-03	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-4	1823058-03	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1823058-03	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-14-4	1823058-03	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-14-4	1823058-03	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-14-4	1823058-03	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L

SDG: 1823058

Analytical 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	1823058-03	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-4	1823058-03	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-14-4	1823058-03	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-14-4	1823058-03	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-4	1823058-03	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1823058-03	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-14-4	1823058-03	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1823058-03	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-14-4	1823058-03	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-4	1823058-03	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-14-4	1823058-03	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-14-4	1823058-03	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-4	1823058-03	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-14-4	1823058-03	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-14-4	1823058-03	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1823058-03	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1823058-03	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1823058-03	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1823058-03	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1823058-03	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1823058-03	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1823058-03	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1823058-03	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823058

Analytical 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	1823058-03	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-4	1823058-03	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-4	1823058-03	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1823058-03	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-14-4	1823058-03	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1823058-03	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1823058-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1823058-03	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-5	1823058-02	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-14-5	1823058-02	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1823058-02	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1823058-02	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-14-5	1823058-02	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1823058-02	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-14-5	1823058-02	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-14-5	1823058-02	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-14-5	1823058-02	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1823058-02	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1823058-02	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-14-5	1823058-02	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823058

Analytical 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	1823058-02	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1823058-02	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1823058-02	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-14-5	1823058-02	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-14-5	1823058-02	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1823058-02	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1823058-02	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-14-5	1823058-02	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-14-5	1823058-02	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-14-5	1823058-02	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-14-5	1823058-02	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-14-5	1823058-02	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-5	1823058-02	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-14-5	1823058-02	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-14-5	1823058-02	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-14-5	1823058-02	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-14-5	1823058-02	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-14-5	1823058-02	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-14-5	1823058-02	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1823058-02	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-5	1823058-02	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-14-5	1823058-02	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-14-5	1823058-02	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823058

Analytical 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	1823058-02	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1823058-02	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1823058-02	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-5	1823058-02	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1823058-02	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-14-5	1823058-02	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1823058-02	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-5	1823058-02	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1823058-02	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1823058-02	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1823058-02	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1823058-02	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1823058-02	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1823058-02	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-14-5	1823058-02	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-5	1823058-02	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1823058-02	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1823058-02	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L

SDG: 1823058

Analytical 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	1823058-02	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-5	1823058-02	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1823058-02	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1823058-02	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1823058-02	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1823058-02	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1823058-02	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1823058-02	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1823058-02	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1823058-02	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1823058-02	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1823058-02	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1823058-02	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1823058-02	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1823058-02	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-1	1823058-10	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1823058-10	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L

SDG: 1823058

Analytical 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	1823058-10	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-1	1823058-10	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-1	1823058-10	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-1	1823058-10	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-1	1823058-10	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-1	1823058-10	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-1	1823058-10	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-25-1	1823058-10	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1823058-10	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1823058-10	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-1	1823058-10	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	Trichloroethene	7/31/2018	0.98	Y	y	v		0.50	0.19	ug/L
MW-25-1	1823058-10	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1823058-10	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-1	1823058-10	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1823058-10	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-1	1823058-10	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1823058-10	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1823058-10	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-25-1	1823058-10	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-25-1	1823058-10	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-25-1	1823058-10	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L

SDG: 1823058

Analytical 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	1823058-10	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1823058-10	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1823058-10	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1823058-10	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-1	1823058-10	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-25-1	1823058-10	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-25-1	1823058-10	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-25-1	1823058-10	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-1	1823058-10	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-25-1	1823058-10	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-25-1	1823058-10	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-25-1	1823058-10	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-25-1	1823058-10	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-25-1	1823058-10	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1823058-10	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1823058-10	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-1	1823058-10	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-1	1823058-10	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1823058-10	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1823058-10	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1823058-10	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1823058

Analytical 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	1823058-10	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1823058-10	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-1	1823058-10	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1823058-10	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1823058-10	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	Chloroform	7/31/2018	0.37	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1823058-10	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-1	1823058-10	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1823058-10	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1823058-10	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1823058-10	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1823058-10	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1823058-10	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-1	1823058-10	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1823058-10	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	Methyl t-butyl ether	7/31/2018	0.46	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1823058-10	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823058

Analytical 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	1823058-10	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1823058-10	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1823058-10	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1823058-10	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1823058-10	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1823058-10	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1823058-10	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1823058-10	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1823058-10	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1823058-09	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-2	1823058-09	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1823058-09	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1823058-09	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1823058-09	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1823058-09	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1823058-09	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1823058-09	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1823058-09	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1823058

Analytical 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	1823058-09	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1823058-09	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-25-2	1823058-09	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1823058-09	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1823058-09	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1823058-09	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1823058-09	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-2	1823058-09	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1823058-09	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1823058-09	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1823058-09	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1823058-09	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-2	1823058-09	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1823058-09	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-2	1823058-09	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823058

Analytical 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	1823058-09	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1823058-09	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1823058-09	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-25-2	1823058-09	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1823058-09	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-2	1823058-09	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-2	1823058-09	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1823058-09	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-25-2	1823058-09	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-25-2	1823058-09	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-25-2	1823058-09	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-25-2	1823058-09	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-2	1823058-09	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-25-2	1823058-09	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-2	1823058-09	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-2	1823058-09	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1823058-09	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-25-2	1823058-09	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-2	1823058-09	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-25-2	1823058-09	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-25-2	1823058-09	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-25-2	1823058-09	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-25-2	1823058-09	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-2	1823058-09	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L

SDG: 1823058

Analytical 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	1823058-09	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1823058-09	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1823058-09	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1823058-09	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1823058-09	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1823058-09	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1823058-09	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-2	1823058-09	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-2	1823058-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1823058-09	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1823058-09	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1823058-09	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1823058-09	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-25-2	1823058-09	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-2	1823058-09	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-2	1823058-09	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1823058-09	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-25-2	1823058-09	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1823058-08	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1823058-08	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-3	1823058-08	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823058

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1823058-08	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-3	1823058-08	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-3	1823058-08	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-25-3	1823058-08	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1823058-08	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1823058-08	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-3	1823058-08	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-3	1823058-08	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-3	1823058-08	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1823058-08	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1823058-08	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1823058-08	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1823058-08	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1823058-08	Tetrachloroethene	7/31/2018	0.28	Y	y	v j		0.50	0.23	ug/L
MW-25-3	1823058-08	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1823058-08	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-3	1823058-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1823058-08	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-25-3	1823058-08	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-3	1823058-08	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-25-3	1823058-08	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-25-3	1823058-08	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-25-3	1823058-08	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L

SDG: 1823058

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1823058-08	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-25-3	1823058-08	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-25-3	1823058-08	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1823058-08	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-25-3	1823058-08	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-25-3	1823058-08	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-3	1823058-08	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-3	1823058-08	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-25-3	1823058-08	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-25-3	1823058-08	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-25-3	1823058-08	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-25-3	1823058-08	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1823058-08	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-3	1823058-08	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-3	1823058-08	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-3	1823058-08	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-3	1823058-08	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1823058-08	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1823058-08	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-3	1823058-08	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-3	1823058-08	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-3	1823058-08	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1823058-08	Chloroform	7/31/2018	0.27	Y	y	v j		0.50	0.14	ug/L
MW-25-3	1823058-08	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823058

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1823058-08	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-3	1823058-08	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1823058-08	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-3	1823058-08	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1823058-08	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-3	1823058-08	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1823058-08	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1823058-08	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1823058-08	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-3	1823058-08	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1823058-08	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-3	1823058-08	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1823058-08	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1823058-08	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1823058-08	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1823058-08	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1823058-08	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-3	1823058-08	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1823058-08	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823058

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1823058-08	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1823058-08	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1823058-08	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1823058-08	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1823058-08	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1823058-08	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-4	1823058-07	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-4	1823058-07	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1823058-07	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1823058-07	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1823058-07	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1823058-07	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1823058-07	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1823058-07	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1823058-07	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823058

Analytical 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	1823058-07	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1823058-07	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1823058-07	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1823058-07	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1823058-07	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1823058-07	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1823058-07	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-4	1823058-07	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1823058-07	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1823058-07	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-4	1823058-07	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1823058-07	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-4	1823058-07	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1823058-07	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1823058-07	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823058

Analytical 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	1823058-07	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1823058-07	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-4	1823058-07	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1823058-07	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-4	1823058-07	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1823058-07	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-25-4	1823058-07	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-25-4	1823058-07	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-25-4	1823058-07	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-25-4	1823058-07	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-4	1823058-07	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-4	1823058-07	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-25-4	1823058-07	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-4	1823058-07	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1823058-07	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-25-4	1823058-07	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-25-4	1823058-07	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-25-4	1823058-07	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-25-4	1823058-07	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-25-4	1823058-07	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-25-4	1823058-07	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-4	1823058-07	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-25-4	1823058-07	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1823058

Analytical 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	1823058-07	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1823058-07	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1823058-07	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1823058-07	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1823058-07	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1823058-07	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1823058-07	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-4	1823058-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1823058-07	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1823058-07	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1823058-07	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1823058-07	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-25-4	1823058-07	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-4	1823058-07	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L
MW-25-4	1823058-07	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1823058-07	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-25-4	1823058-07	Carbon disulfide	7/31/2018	0.91	Y	y	v j		1.0	0.48	ug/L
MW-25-4	1823058-07	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-4	1823058-07	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1823058-06	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1823058-06	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1823058

Analytical 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	1823058-06	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1823058-06	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1823058-06	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1823058-06	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1823058-06	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1823058-06	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1823058-06	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1823058-06	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1823058-06	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1823058-06	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1823058-06	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-25-5	1823058-06	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
MW-25-5	1823058-06	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1823058-06	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-5	1823058-06	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823058

Analytical 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	1823058-06	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1823058-06	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1823058-06	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1823058-06	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-5	1823058-06	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1823058-06	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
MW-25-5	1823058-06	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1823058-06	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1823058-06	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1823058-06	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
MW-25-5	1823058-06	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
MW-25-5	1823058-06	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
MW-25-5	1823058-06	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-5	1823058-06	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-5	1823058-06	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1823058-06	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
MW-25-5	1823058-06	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
MW-25-5	1823058-06	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
MW-25-5	1823058-06	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
MW-25-5	1823058-06	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1823058

Analytical 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	1823058-06	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
MW-25-5	1823058-06	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
MW-25-5	1823058-06	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-5	1823058-06	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1823058-06	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
MW-25-5	1823058-06	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
MW-25-5	1823058-06	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
MW-25-5	1823058-06	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
MW-25-5	1823058-06	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1823058-06	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1823058-06	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
MW-25-5	1823058-06	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1823058-06	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
MW-25-5	1823058-06	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1823058-06	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
MW-25-5	1823058-06	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1823058-06	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1823058-06	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1823058-06	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1823058-06	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L
MW-25-5	1823058-06	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
MW-25-5	1823058-06	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
MW-25-5	1823058-06	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L

SDG: 1823058

Analytical 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	1823058-06	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
MW-25-5	1823058-06	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1823058-06	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1823058-06	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1823058-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1823058-06	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-072418	1823058-01	Methylene chloride	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-072418	1823058-01	1,2,3-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-072418	1823058-01	1,1-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-072418	1823058-01	cis-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	trans-1,3-Dichloropropene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-072418	1823058-01	Ethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	Hexachlorobutadiene	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-2-072418	1823058-01	Isopropylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	p-Isopropyltoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	Methyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	Naphthalene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-072418	1823058-01	1,1,1-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-072418	1823058-01	n-Propylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-072418	1823058-01	Styrene	7/31/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-072418	1823058-01	1,1,1,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-072418	1823058-01	1,1,2,2-Tetrachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	Toluene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	1,2,4-Trichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823058

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-2-072418	1823058-01	2,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-072418	1823058-01	Tetrachloroethene	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-072418	1823058-01	1,2-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-072418	1823058-01	Chlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	Chloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	Chloroform	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	Methyl isobutyl ketone	7/31/2018	10	Y	n	u		10	2.4	ug/L
TB-2-072418	1823058-01	Chloromethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-072418	1823058-01	1,1,2-Trichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-072418	1823058-01	4-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-2-072418	1823058-01	Dibromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-072418	1823058-01	1,2-Dibromo-3-chloropropane	7/31/2018	1	Y	n	u		1.0	0.89	ug/L
TB-2-072418	1823058-01	2-Chlorotoluene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	Dibromomethane	7/31/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-072418	1823058-01	1,3-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-072418	1823058-01	1,3-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-072418	1823058-01	1,4-Dichlorobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	Dichlorodifluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	1,1-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	1,2-Dichloroethane	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	1,1-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-072418	1823058-01	cis-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-072418	1823058-01	trans-1,2-Dichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	1,2-Dichloropropane	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	1,2-Dibromoethane	7/31/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823058

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-2-072418	1823058-01	sec-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-072418	1823058-01	Methyl ethyl ketone	7/31/2018	10	Y	n	u		10	3.3	ug/L
TB-2-072418	1823058-01	Tetrahydrofuran	7/31/2018	20	Y	n	u		20	5.2	ug/L
TB-2-072418	1823058-01	p- & m-Xylenes	7/31/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-2-072418	1823058-01	o-Xylene	7/31/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-072418	1823058-01	Chloroacetonitrile	7/31/2018	0	Y	y	v				ug/L
TB-2-072418	1823058-01	1-Chlorobutane	7/31/2018	0	Y	y	v				ug/L
TB-2-072418	1823058-01	1,1-Dichloropropanone	7/31/2018	0	Y	y	v				ug/L
TB-2-072418	1823058-01	Methyl acrylate	7/31/2018	0	Y	y	v				ug/L
TB-2-072418	1823058-01	Methyl iodide	7/31/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-2-072418	1823058-01	2-Nitropropane	7/31/2018	0	Y	y	v				ug/L
TB-2-072418	1823058-01	Methyl methacrylate	7/31/2018	5	Y	n	u		5.0	1.2	ug/L
TB-2-072418	1823058-01	n-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	Bromochloromethane	7/31/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-072418	1823058-01	Bromodichloromethane	7/31/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-2-072418	1823058-01	Bromomethane	7/31/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-2-072418	1823058-01	Pentachloroethane	7/31/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-2-072418	1823058-01	Carbon tetrachloride	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	Bromobenzene	7/31/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-072418	1823058-01	Benzene	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-072418	1823058-01	Bromoform	7/31/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-2-072418	1823058-01	Nitrobenzene	7/31/2018	0	Y	y	v				ug/L
TB-2-072418	1823058-01	t-Butyl alcohol	7/31/2018	10	Y	n	u		10	9.4	ug/L
TB-2-072418	1823058-01	Trichlorofluoromethane	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	1,2,3-Trichloropropane	7/31/2018	1	Y	n	u		1.0	0.78	ug/L

SDG: 1823058

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-2-072418	1823058-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-072418	1823058-01	1,2,4-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-072418	1823058-01	1,3,5-Trimethylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-072418	1823058-01	Vinyl chloride	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-072418	1823058-01	Acetone	7/31/2018	10	Y	n	u		10	6.6	ug/L
TB-2-072418	1823058-01	Acrylonitrile	7/31/2018	5	Y	n	u		5.0	1.5	ug/L
TB-2-072418	1823058-01	Propionitrile	7/31/2018	20	Y	n	u		20	6.2	ug/L
TB-2-072418	1823058-01	t-Amyl Methyl ether	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-072418	1823058-01	Trichloroethene	7/31/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-072418	1823058-01	Carbon disulfide	7/31/2018	1	Y	n	u		1.0	0.48	ug/L
TB-2-072418	1823058-01	trans-1,4-Dichloro-2-butene	7/31/2018	5	Y	n	u		5.0	1.8	ug/L
TB-2-072418	1823058-01	Diethyl ether	7/31/2018	2	Y	n	u		2.0	0.33	ug/L
TB-2-072418	1823058-01	Ethyl methacrylate	7/31/2018	4	Y	n	u		4.0	1.3	ug/L
TB-2-072418	1823058-01	Ethyl t-butyl ether	7/31/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-2-072418	1823058-01	Hexachloroethane	7/31/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-072418	1823058-01	2-Hexanone	7/31/2018	10	Y	n	u		10	5.0	ug/L
TB-2-072418	1823058-01	Methacrylonitrile	7/31/2018	10	Y	n	u		10	2.3	ug/L
TB-2-072418	1823058-01	tert-Butylbenzene	7/31/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-072418	1823058-01	Allyl chloride	7/31/2018	5	Y	n	u		5.0	0.47	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-2-3Q18	1823058-11	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-2-072418	1823058-12	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-14-2	1823058-05	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

SDG: 1823058

Analytical Method											
EPA-7196											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1823058-04	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-25-1	1823058-10	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-25-2	1823058-09	Hexavalent Chromium	7/24/2018	0.0035	Y	y	v		0.0020	0.0007	mg/L
MW-25-3	1823058-08	Hexavalent Chromium	7/24/2018	0.0035	Y	y	v		0.0020	0.0007	mg/L
MW-25-4	1823058-07	Hexavalent Chromium	7/24/2018	0.0011	Y	y	v j		0.0020	0.0007	mg/L
MW-25-5	1823058-06	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

NASA JPL, 3Q2018 - LDC# 43014

SDG: 1822876

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-1-072318	1822876-12	Total Recoverable Chromium	7/26/2018	0.98	Y	y	v j	U	3.0	0.50	ug/L
MW-20-2	1822876-05	Total Recoverable Chromium	7/26/2018	0.66	Y	y	v j	U	3.0	0.50	ug/L
MW-20-3	1822876-04	Total Recoverable Chromium	7/26/2018	0.93	Y	y	v j	U	3.0	0.50	ug/L
MW-20-4	1822876-03	Total Recoverable Chromium	7/26/2018	0.83	Y	y	v j	U	3.0	0.50	ug/L
MW-20-5	1822876-02	Total Recoverable Chromium	7/26/2018	1.1	Y	y	v j	U	3.0	0.50	ug/L
SB-1-072318	1822876-13	Total Recoverable Chromium	7/26/2018	0.99	Y	y	v j	U	3.0	0.50	ug/L

Analytical Method											
EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-3Q18	1822876-09	Perchlorate	8/13/2018	2.5	Y	y	v j		4.0	0.58	ug/L
EB-1-072318	1822876-12	Perchlorate	8/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-19-1	1822876-11	Perchlorate	8/10/2018	1.3	Y	y	v j		4.0	0.58	ug/L
MW-19-2	1822876-10	Perchlorate	8/13/2018	3	Y	y	v j		4.0	0.58	ug/L
MW-19-3	1822876-08	Perchlorate	8/10/2018	2.2	Y	y	v j		4.0	0.58	ug/L
MW-19-4	1822876-07	Perchlorate	8/10/2018	3	Y	y	v j		4.0	0.58	ug/L
MW-19-5	1822876-06	Perchlorate	8/10/2018	2.1	Y	y	v j		4.0	0.58	ug/L
MW-20-2	1822876-05	Perchlorate	8/10/2018	1.5	Y	y	v j		4.0	0.58	ug/L
MW-20-3	1822876-04	Perchlorate	8/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-20-4	1822876-03	Perchlorate	8/10/2018	4	Y	n	u		4.0	0.58	ug/L
MW-20-5	1822876-02	Perchlorate	8/10/2018	4	Y	n	u		4.0	0.58	ug/L
SB-1-072318	1822876-13	Perchlorate	8/10/2018	4	Y	n	u		4.0	0.58	ug/L

Analytical Method											
EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-1-3Q18	1822876-09	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L

SDG: 1822876

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-1-3Q18	1822876-09	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
DUP-1-3Q18	1822876-09	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
DUP-1-3Q18	1822876-09	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-1-3Q18	1822876-09	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-1-3Q18	1822876-09	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-1-3Q18	1822876-09	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
DUP-1-3Q18	1822876-09	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-1-3Q18	1822876-09	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-1-3Q18	1822876-09	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-1-3Q18	1822876-09	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
DUP-1-3Q18	1822876-09	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-3Q18	1822876-09	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-1-3Q18	1822876-09	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-1-3Q18	1822876-09	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
DUP-1-3Q18	1822876-09	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-1-3Q18	1822876-09	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-3Q18	1822876-09	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-1-3Q18	1822876-09	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-1-3Q18	1822876-09	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
DUP-1-3Q18	1822876-09	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
DUP-1-3Q18	1822876-09	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
DUP-1-3Q18	1822876-09	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
DUP-1-3Q18	1822876-09	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L

SDG: 1822876

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-1-3Q18	1822876-09	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
DUP-1-3Q18	1822876-09	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-3Q18	1822876-09	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-1-3Q18	1822876-09	Bromodichloromethane	7/30/2018	0.22	Y	y	v j		0.50	0.20	ug/L
DUP-1-3Q18	1822876-09	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-3Q18	1822876-09	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
DUP-1-3Q18	1822876-09	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-1-3Q18	1822876-09	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-1-3Q18	1822876-09	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-1-3Q18	1822876-09	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-1-3Q18	1822876-09	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-1-3Q18	1822876-09	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
DUP-1-3Q18	1822876-09	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-1-3Q18	1822876-09	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-1-3Q18	1822876-09	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-1-3Q18	1822876-09	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1822876

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-1-3Q18	1822876-09	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-3Q18	1822876-09	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-3Q18	1822876-09	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-1-3Q18	1822876-09	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-1-3Q18	1822876-09	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	Chloroform	7/30/2018	2.2	Y	y	v		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-1-3Q18	1822876-09	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-1-3Q18	1822876-09	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-1-3Q18	1822876-09	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-1-3Q18	1822876-09	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-1-3Q18	1822876-09	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-3Q18	1822876-09	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-3Q18	1822876-09	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-1-3Q18	1822876-09	Trichloroethene	7/30/2018	0.21	Y	y	v j		0.50	0.19	ug/L
DUP-1-3Q18	1822876-09	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-1-3Q18	1822876-09	Tetrachloroethene	7/30/2018	0.48	Y	y	v j		0.50	0.23	ug/L
DUP-1-3Q18	1822876-09	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-3Q18	1822876-09	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-3Q18	1822876-09	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1822876

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-1-3Q18	1822876-09	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-1-3Q18	1822876-09	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-1-3Q18	1822876-09	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-1-3Q18	1822876-09	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-1-3Q18	1822876-09	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-1-3Q18	1822876-09	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-1-3Q18	1822876-09	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-1-3Q18	1822876-09	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-1-3Q18	1822876-09	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-072318	1822876-12	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
EB-1-072318	1822876-12	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
EB-1-072318	1822876-12	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
EB-1-072318	1822876-12	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
EB-1-072318	1822876-12	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
EB-1-072318	1822876-12	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-072318	1822876-12	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-072318	1822876-12	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-072318	1822876-12	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-072318	1822876-12	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-072318	1822876-12	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1822876

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-1-072318	1822876-12	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-1-072318	1822876-12	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
EB-1-072318	1822876-12	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-1-072318	1822876-12	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
EB-1-072318	1822876-12	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
EB-1-072318	1822876-12	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-072318	1822876-12	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-1-072318	1822876-12	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
EB-1-072318	1822876-12	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
EB-1-072318	1822876-12	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
EB-1-072318	1822876-12	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
EB-1-072318	1822876-12	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
EB-1-072318	1822876-12	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
EB-1-072318	1822876-12	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-072318	1822876-12	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-1-072318	1822876-12	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
EB-1-072318	1822876-12	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
EB-1-072318	1822876-12	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
EB-1-072318	1822876-12	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-072318	1822876-12	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-1-072318	1822876-12	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L

SDG: 1822876

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-1-072318	1822876-12	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-1-072318	1822876-12	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-1-072318	1822876-12	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-072318	1822876-12	Chloroform	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-072318	1822876-12	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-1-072318	1822876-12	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-072318	1822876-12	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-1-072318	1822876-12	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-1-072318	1822876-12	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-1-072318	1822876-12	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-072318	1822876-12	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-1-072318	1822876-12	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-1-072318	1822876-12	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-1-072318	1822876-12	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-1-072318	1822876-12	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-1-072318	1822876-12	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1822876

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-1-072318	1822876-12	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-1-072318	1822876-12	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-1-072318	1822876-12	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-1-072318	1822876-12	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-072318	1822876-12	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-1-072318	1822876-12	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-072318	1822876-12	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-1-072318	1822876-12	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-1-072318	1822876-12	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-1-072318	1822876-12	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-1-072318	1822876-12	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-1-072318	1822876-12	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
EB-1-072318	1822876-12	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-1-072318	1822876-12	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
EB-1-072318	1822876-12	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
EB-1-072318	1822876-12	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
EB-1-072318	1822876-12	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-19-1	1822876-11	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1822876-11	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1822876

Analytical 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	1822876-11	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1822876-11	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1822876-11	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1822876-11	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1822876-11	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1822876-11	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1822876-11	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1822876-11	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-1	1822876-11	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-1	1822876-11	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1822876-11	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1822876-11	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1822876-11	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-1	1822876-11	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-1	1822876-11	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1822876-11	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1822876-11	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1822876

Analytical 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	1822876-11	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1822876-11	Chloroform	7/30/2018	3.4	Y	y	v		0.50	0.14	ug/L
MW-19-1	1822876-11	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-1	1822876-11	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-1	1822876-11	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-1	1822876-11	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-1	1822876-11	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-1	1822876-11	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-1	1822876-11	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1822876-11	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-1	1822876-11	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-1	1822876-11	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1822876-11	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-19-1	1822876-11	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1822876-11	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-1	1822876-11	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1822876-11	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-19-1	1822876-11	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-19-1	1822876-11	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-19-1	1822876-11	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-19-1	1822876-11	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-19-1	1822876-11	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-1	1822876-11	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L

SDG: 1822876

Analytical 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	1822876-11	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-1	1822876-11	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-19-1	1822876-11	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-1	1822876-11	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-1	1822876-11	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-19-1	1822876-11	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-19-1	1822876-11	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-1	1822876-11	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-19-1	1822876-11	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-1	1822876-11	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-19-1	1822876-11	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-1	1822876-11	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-1	1822876-11	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1822876-11	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1822876-11	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1822876-11	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1822876-11	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-1	1822876-11	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1822876-11	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-1	1822876-11	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-1	1822876-11	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-1	1822876-11	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L

SDG: 1822876

Analytical 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	1822876-11	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-1	1822876-11	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-1	1822876-11	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-1	1822876-11	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-19-1	1822876-11	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-1	1822876-11	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-1	1822876-11	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-1	1822876-11	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-1	1822876-11	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-1	1822876-11	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	Tetrachloroethene	7/30/2018	1.6	Y	y	v		0.50	0.23	ug/L
MW-19-2	1822876-10	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1822876-10	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-2	1822876-10	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-2	1822876-10	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1822876-10	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1822876-10	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1822876-10	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1822876

Analytical 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	1822876-10	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1822876-10	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1822876-10	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1822876-10	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-2	1822876-10	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-19-2	1822876-10	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-19-2	1822876-10	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1822876-10	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-19-2	1822876-10	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-2	1822876-10	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-2	1822876-10	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-2	1822876-10	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-2	1822876-10	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-2	1822876-10	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1822876-10	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1822876-10	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-2	1822876-10	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-19-2	1822876-10	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1822876-10	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1822876-10	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L

SDG: 1822876

Analytical 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	1822876-10	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-2	1822876-10	Trichloroethene	7/30/2018	0.85	Y	y	v		0.50	0.19	ug/L
MW-19-2	1822876-10	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-19-2	1822876-10	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-19-2	1822876-10	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1822876-10	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-2	1822876-10	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-2	1822876-10	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-2	1822876-10	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-2	1822876-10	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-19-2	1822876-10	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-2	1822876-10	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-19-2	1822876-10	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-2	1822876-10	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-2	1822876-10	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1822876-10	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-19-2	1822876-10	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1822876-10	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-19-2	1822876-10	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-19-2	1822876-10	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-19-2	1822876-10	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-19-2	1822876-10	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1822876

Analytical 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	1822876-10	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-2	1822876-10	1,1-Dichloroethane	7/30/2018	0.18	Y	y	v j		0.50	0.15	ug/L
MW-19-2	1822876-10	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-19-2	1822876-10	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-2	1822876-10	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-2	1822876-10	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-2	1822876-10	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-2	1822876-10	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-2	1822876-10	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-2	1822876-10	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-2	1822876-10	cis-1,2-Dichloroethene	7/30/2018	0.35	Y	y	v j		0.50	0.27	ug/L
MW-19-2	1822876-10	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-2	1822876-10	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-2	1822876-10	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-2	1822876-10	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-2	1822876-10	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-2	1822876-10	Chloroform	7/30/2018	2.3	Y	y	v		0.50	0.14	ug/L
MW-19-2	1822876-10	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1822876-08	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1822876-08	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1822876-08	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1822876

Analytical 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	1822876-08	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1822876-08	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1822876-08	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1822876-08	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1822876-08	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1822876-08	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1822876-08	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1822876-08	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-3	1822876-08	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-3	1822876-08	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-3	1822876-08	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-3	1822876-08	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	Chloroform	7/30/2018	2.6	Y	y	v		0.50	0.14	ug/L
MW-19-3	1822876-08	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1822876-08	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-19-3	1822876-08	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1822876-08	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-3	1822876-08	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1822876

Analytical 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	1822876-08	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-3	1822876-08	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1822876-08	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1822876-08	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1822876-08	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1822876-08	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1822876-08	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-3	1822876-08	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-3	1822876-08	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-3	1822876-08	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-3	1822876-08	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-3	1822876-08	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1822876-08	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-3	1822876-08	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-3	1822876-08	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-3	1822876-08	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-3	1822876-08	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-19-3	1822876-08	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-19-3	1822876-08	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-3	1822876-08	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L

SDG: 1822876

Analytical 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	1822876-08	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-3	1822876-08	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-3	1822876-08	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-19-3	1822876-08	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-19-3	1822876-08	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-19-3	1822876-08	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-19-3	1822876-08	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-3	1822876-08	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-19-3	1822876-08	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-19-3	1822876-08	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-19-3	1822876-08	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-3	1822876-08	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-3	1822876-08	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1822876-08	Trichloroethene	7/30/2018	0.31	Y	y	v j		0.50	0.19	ug/L
MW-19-3	1822876-08	Tetrachloroethene	7/30/2018	0.55	Y	y	v		0.50	0.23	ug/L
MW-19-3	1822876-08	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-19-3	1822876-08	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-3	1822876-08	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1822876-08	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-3	1822876-08	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1822876-08	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-3	1822876-08	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-3	1822876-08	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-3	1822876-08	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L

SDG: 1822876

Analytical 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	1822876-08	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-3	1822876-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1822876-08	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-3	1822876-08	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-3	1822876-08	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-3	1822876-08	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-19-3	1822876-08	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-3	1822876-08	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-3	1822876-08	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1822876-07	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1822876-07	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1822876-07	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1822876-07	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1822876-07	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1822876-07	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1822876-07	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1822876-07	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1822876

Analytical 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	1822876-07	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-4	1822876-07	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-4	1822876-07	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	Tetrachloroethene	7/30/2018	0.43	Y	y	v j		0.50	0.23	ug/L
MW-19-4	1822876-07	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1822876-07	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1822876-07	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1822876-07	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1822876-07	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-4	1822876-07	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-19-4	1822876-07	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1822876-07	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1822876-07	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-4	1822876-07	Chloroform	7/30/2018	0.65	Y	y	v		0.50	0.14	ug/L
MW-19-4	1822876-07	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-4	1822876-07	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-4	1822876-07	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L

SDG: 1822876

Analytical 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	1822876-07	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-4	1822876-07	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-4	1822876-07	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1822876-07	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-4	1822876-07	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-4	1822876-07	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-19-4	1822876-07	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-19-4	1822876-07	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-19-4	1822876-07	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-19-4	1822876-07	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-19-4	1822876-07	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-4	1822876-07	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-19-4	1822876-07	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-19-4	1822876-07	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-4	1822876-07	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-4	1822876-07	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-4	1822876-07	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-19-4	1822876-07	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-19-4	1822876-07	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-19-4	1822876-07	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-19-4	1822876-07	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-4	1822876-07	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1822876-07	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1822876

Analytical 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	1822876-07	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-4	1822876-07	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1822876-07	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-4	1822876-07	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-19-4	1822876-07	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-4	1822876-07	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-4	1822876-07	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-4	1822876-07	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-4	1822876-07	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1822876-07	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-4	1822876-07	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-19-4	1822876-07	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-19-4	1822876-07	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-4	1822876-07	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1822876-07	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-19-4	1822876-07	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-4	1822876-07	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-4	1822876-07	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-4	1822876-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-4	1822876-07	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-5	1822876-06	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1822876-06	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1822876-06	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1822876-06	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1822876

Analytical 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	1822876-06	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1822876-06	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1822876-06	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1822876-06	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-5	1822876-06	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1822876-06	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-5	1822876-06	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-5	1822876-06	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-19-5	1822876-06	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1822876-06	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	Chloroform	7/30/2018	1.7	Y	y	v		0.50	0.14	ug/L
MW-19-5	1822876-06	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-19-5	1822876-06	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-5	1822876-06	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-19-5	1822876-06	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L

SDG: 1822876

Analytical 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	1822876-06	Bromodichloromethane	7/30/2018	0.24	Y	y	v j		0.50	0.20	ug/L
MW-19-5	1822876-06	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-19-5	1822876-06	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-19-5	1822876-06	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1822876-06	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1822876-06	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1822876-06	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1822876-06	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-19-5	1822876-06	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-5	1822876-06	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-19-5	1822876-06	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-19-5	1822876-06	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-19-5	1822876-06	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1822876-06	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-19-5	1822876-06	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-19-5	1822876-06	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-19-5	1822876-06	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-19-5	1822876-06	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-19-5	1822876-06	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L

SDG: 1822876

Analytical 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	1822876-06	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-19-5	1822876-06	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-19-5	1822876-06	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-19-5	1822876-06	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-19-5	1822876-06	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-19-5	1822876-06	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-19-5	1822876-06	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-19-5	1822876-06	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-19-5	1822876-06	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-19-5	1822876-06	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-19-5	1822876-06	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-19-5	1822876-06	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-19-5	1822876-06	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-19-5	1822876-06	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-19-5	1822876-06	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-19-5	1822876-06	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-19-5	1822876-06	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-19-5	1822876-06	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-19-5	1822876-06	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1822876-06	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1822876-06	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1822876-06	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-19-5	1822876-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1822876-06	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-19-5	1822876-06	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1822876

Analytical 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	1822876-06	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-19-5	1822876-06	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-19-5	1822876-06	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-19-5	1822876-06	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-19-5	1822876-06	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-19-5	1822876-06	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-19-5	1822876-06	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-2	1822876-05	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1822876-05	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1822876-05	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-2	1822876-05	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-2	1822876-05	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1822876-05	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1822876-05	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-2	1822876-05	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1822876-05	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-2	1822876-05	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-2	1822876-05	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1822876-05	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1822876-05	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1822876-05	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1822876

Analytical 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	1822876-05	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-2	1822876-05	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-2	1822876-05	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1822876-05	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1822876-05	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-2	1822876-05	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-2	1822876-05	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-2	1822876-05	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1822876-05	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-20-2	1822876-05	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-2	1822876-05	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-2	1822876-05	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1822876-05	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-2	1822876-05	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1822876-05	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-2	1822876-05	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-2	1822876-05	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-2	1822876-05	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-2	1822876-05	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	Chloroform	7/30/2018	0.15	Y	y	v j		0.50	0.14	ug/L
MW-20-2	1822876-05	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-2	1822876-05	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1822876

Analytical 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	1822876-05	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-2	1822876-05	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-2	1822876-05	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-2	1822876-05	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-2	1822876-05	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-2	1822876-05	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-2	1822876-05	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-2	1822876-05	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-2	1822876-05	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-20-2	1822876-05	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-2	1822876-05	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-20-2	1822876-05	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-20-2	1822876-05	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-20-2	1822876-05	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-20-2	1822876-05	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-2	1822876-05	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-20-2	1822876-05	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-2	1822876-05	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-20-2	1822876-05	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-20-2	1822876-05	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-20-2	1822876-05	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-20-2	1822876-05	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-20-2	1822876-05	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-20-2	1822876-05	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-2	1822876-05	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1822876

Analytical 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	1822876-05	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-20-2	1822876-05	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L	
MW-20-2	1822876-05	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-20-2	1822876-05	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L	
MW-20-2	1822876-05	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-20-2	1822876-05	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L	
MW-20-2	1822876-05	Trichloroethene	7/30/2018	0.47	Y	y	v j		0.50	0.19	ug/L	
MW-20-2	1822876-05	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-20-2	1822876-05	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L	
MW-20-2	1822876-05	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-20-2	1822876-05	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L	
MW-20-2	1822876-05	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L	
MW-20-2	1822876-05	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L	
MW-20-2	1822876-05	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L	
MW-20-2	1822876-05	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L	
MW-20-2	1822876-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-20-2	1822876-05	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L	
MW-20-2	1822876-05	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-20-2	1822876-05	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L	
MW-20-2	1822876-05	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L	
MW-20-3	1822876-04	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-20-3	1822876-04	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L	
MW-20-3	1822876-04	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L	
MW-20-3	1822876-04	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L	
MW-20-3	1822876-04	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L	

SDG: 1822876

Analytical 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	1822876-04	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1822876-04	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1822876-04	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-3	1822876-04	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-3	1822876-04	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1822876-04	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1822876-04	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-3	1822876-04	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-3	1822876-04	Styrene	7/30/2018	0.23	Y	y	v j		0.50	0.12	ug/L
MW-20-3	1822876-04	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1822876-04	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1822876-04	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1822876-04	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1822876-04	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1822876-04	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-3	1822876-04	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1822876-04	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1822876-04	Chloroform	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1822876

Analytical 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	1822876-04	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1822876-04	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-3	1822876-04	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1822876-04	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-3	1822876-04	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-3	1822876-04	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-3	1822876-04	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-3	1822876-04	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-3	1822876-04	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-3	1822876-04	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-3	1822876-04	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-3	1822876-04	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-3	1822876-04	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-3	1822876-04	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-3	1822876-04	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-3	1822876-04	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-3	1822876-04	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-20-3	1822876-04	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-20-3	1822876-04	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-20-3	1822876-04	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L

SDG: 1822876

Analytical 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	1822876-04	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-3	1822876-04	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-20-3	1822876-04	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-20-3	1822876-04	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-20-3	1822876-04	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-3	1822876-04	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1822876-04	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-20-3	1822876-04	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-20-3	1822876-04	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-20-3	1822876-04	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-20-3	1822876-04	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1822876-04	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-20-3	1822876-04	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-3	1822876-04	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-20-3	1822876-04	Acrylonitrile	7/30/2018	1.7	Y	y	v j		5.0	1.5	ug/L
MW-20-3	1822876-04	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-3	1822876-04	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-20-3	1822876-04	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-3	1822876-04	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-3	1822876-04	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-3	1822876-04	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-3	1822876-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-3	1822876-04	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-20-3	1822876-04	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L

SDG: 1822876

Analytical 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	1822876-04	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-3	1822876-04	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-20-3	1822876-04	Carbon disulfide	7/30/2018	0.52	Y	y	v j		1.0	0.48	ug/L
MW-20-3	1822876-04	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-3	1822876-04	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-20-3	1822876-04	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-3	1822876-04	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1822876-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1822876-03	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-4	1822876-03	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-4	1822876-03	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1822876-03	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1822876-03	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1822876-03	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-4	1822876-03	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1822876-03	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1822876-03	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-4	1822876-03	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-4	1822876-03	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-4	1822876-03	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1822876-03	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1822876

Analytical 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	1822876-03	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1822876-03	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-20-4	1822876-03	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1822876-03	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-4	1822876-03	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-20-4	1822876-03	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
MW-20-4	1822876-03	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-4	1822876-03	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-20-4	1822876-03	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-4	1822876-03	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-4	1822876-03	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-20-4	1822876-03	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-4	1822876-03	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-4	1822876-03	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-4	1822876-03	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-20-4	1822876-03	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-20-4	1822876-03	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-20-4	1822876-03	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-4	1822876-03	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L

SDG: 1822876

Analytical 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	1822876-03	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-4	1822876-03	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1822876-03	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-20-4	1822876-03	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-20-4	1822876-03	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-20-4	1822876-03	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-20-4	1822876-03	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-20-4	1822876-03	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-20-4	1822876-03	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-20-4	1822876-03	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-20-4	1822876-03	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-4	1822876-03	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1822876-03	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-4	1822876-03	Chloroform	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-4	1822876-03	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-4	1822876-03	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-4	1822876-03	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-4	1822876-03	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-4	1822876-03	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L

SDG: 1822876

Analytical 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	1822876-03	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-20-4	1822876-03	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-4	1822876-03	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-4	1822876-03	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-4	1822876-03	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-4	1822876-03	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-4	1822876-03	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-4	1822876-03	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-4	1822876-03	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-4	1822876-03	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-4	1822876-03	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-4	1822876-03	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-4	1822876-03	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-4	1822876-03	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-4	1822876-03	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-5	1822876-02	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-5	1822876-02	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1822876-02	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1822876-02	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1822876

Analytical 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	1822876-02	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-20-5	1822876-02	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1822876-02	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-5	1822876-02	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-5	1822876-02	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1822876-02	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-5	1822876-02	Styrene	7/30/2018	0.12	Y	y	v j		0.50	0.12	ug/L
MW-20-5	1822876-02	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1822876-02	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1822876-02	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-5	1822876-02	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-5	1822876-02	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-20-5	1822876-02	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-5	1822876-02	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-20-5	1822876-02	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-20-5	1822876-02	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1822876-02	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-5	1822876-02	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1822876

Analytical 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	1822876-02	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
MW-20-5	1822876-02	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1822876-02	Chloroform	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-5	1822876-02	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1822876-02	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-20-5	1822876-02	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-5	1822876-02	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
MW-20-5	1822876-02	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-20-5	1822876-02	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-20-5	1822876-02	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1822876-02	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-20-5	1822876-02	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-20-5	1822876-02	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-20-5	1822876-02	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1822876-02	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
MW-20-5	1822876-02	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1822876-02	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
MW-20-5	1822876-02	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
MW-20-5	1822876-02	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-20-5	1822876-02	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
MW-20-5	1822876-02	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1822876

Analytical 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	1822876-02	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
MW-20-5	1822876-02	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-20-5	1822876-02	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
MW-20-5	1822876-02	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
MW-20-5	1822876-02	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
MW-20-5	1822876-02	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
MW-20-5	1822876-02	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
MW-20-5	1822876-02	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
MW-20-5	1822876-02	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
MW-20-5	1822876-02	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-20-5	1822876-02	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
MW-20-5	1822876-02	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-20-5	1822876-02	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-20-5	1822876-02	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1822876-02	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-20-5	1822876-02	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1822876-02	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
MW-20-5	1822876-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-20-5	1822876-02	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-20-5	1822876-02	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
MW-20-5	1822876-02	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
MW-20-5	1822876-02	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
MW-20-5	1822876-02	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L

SDG: 1822876

Analytical 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	1822876-02	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
MW-20-5	1822876-02	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
MW-20-5	1822876-02	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
MW-20-5	1822876-02	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-20-5	1822876-02	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-20-5	1822876-02	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-072318	1822876-13	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
SB-1-072318	1822876-13	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-072318	1822876-13	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-072318	1822876-13	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-072318	1822876-13	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-072318	1822876-13	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-072318	1822876-13	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
SB-1-072318	1822876-13	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
SB-1-072318	1822876-13	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
SB-1-072318	1822876-13	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-072318	1822876-13	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-1-072318	1822876-13	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
SB-1-072318	1822876-13	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
SB-1-072318	1822876-13	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1822876

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-1-072318	1822876-13	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-072318	1822876-13	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-072318	1822876-13	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-072318	1822876-13	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-072318	1822876-13	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-072318	1822876-13	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
SB-1-072318	1822876-13	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
SB-1-072318	1822876-13	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
SB-1-072318	1822876-13	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
SB-1-072318	1822876-13	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
SB-1-072318	1822876-13	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
SB-1-072318	1822876-13	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
SB-1-072318	1822876-13	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L
SB-1-072318	1822876-13	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-072318	1822876-13	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L
SB-1-072318	1822876-13	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
SB-1-072318	1822876-13	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
SB-1-072318	1822876-13	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
SB-1-072318	1822876-13	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
SB-1-072318	1822876-13	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
SB-1-072318	1822876-13	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
SB-1-072318	1822876-13	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L

SDG: 1822876

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-1-072318	1822876-13	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
SB-1-072318	1822876-13	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
SB-1-072318	1822876-13	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-1-072318	1822876-13	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
SB-1-072318	1822876-13	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-1-072318	1822876-13	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-072318	1822876-13	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-1-072318	1822876-13	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-1-072318	1822876-13	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-1-072318	1822876-13	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
SB-1-072318	1822876-13	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-072318	1822876-13	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
SB-1-072318	1822876-13	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-1-072318	1822876-13	Chloroform	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-072318	1822876-13	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-072318	1822876-13	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1822876

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-1-072318	1822876-13	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-1-072318	1822876-13	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-1-072318	1822876-13	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-1-072318	1822876-13	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-1-072318	1822876-13	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-1-072318	1822876-13	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-1-072318	1822876-13	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-1-072318	1822876-13	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-1-072318	1822876-13	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-1-072318	1822876-13	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-072318	1822876-13	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-1-072318	1822876-13	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-1-072318	1822876-13	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-072318	1822876-01	Pentachloroethane	7/30/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-1-072318	1822876-01	Benzene	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-072318	1822876-01	Bromobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	Bromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-072318	1822876-01	1,2,3-Trichloropropane	7/30/2018	1	Y	n	u		1.0	0.78	ug/L
TB-1-072318	1822876-01	Bromodichloromethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-072318	1822876-01	t-Butyl alcohol	7/30/2018	10	Y	n	u		10	9.4	ug/L

SDG: 1822876

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-1-072318	1822876-01	t-Amyl Methyl ether	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-072318	1822876-01	Allyl chloride	7/30/2018	5	Y	n	u		5.0	0.47	ug/L
TB-1-072318	1822876-01	Acrylonitrile	7/30/2018	5	Y	n	u		5.0	1.5	ug/L
TB-1-072318	1822876-01	Acetone	7/30/2018	10	Y	n	u		10	6.6	ug/L
TB-1-072318	1822876-01	Vinyl chloride	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-072318	1822876-01	1,3,5-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	trans-1,4-Dichloro-2-butene	7/30/2018	5	Y	n	u		5.0	1.8	ug/L
TB-1-072318	1822876-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-072318	1822876-01	Diethyl ether	7/30/2018	2	Y	n	u		2.0	0.33	ug/L
TB-1-072318	1822876-01	Trichlorofluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	Trichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-072318	1822876-01	1,1,2-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-072318	1822876-01	1,1,1-Trichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-072318	1822876-01	1,2,4-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	1,2,3-Trichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-1-072318	1822876-01	Toluene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	1,1,2,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	1,2,4-Trimethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	Methyl iodide	7/30/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-1-072318	1822876-01	2-Nitropropane	7/30/2018	0	Y	y	v				ug/L
TB-1-072318	1822876-01	Nitrobenzene	7/30/2018	0	Y	y	v				ug/L
TB-1-072318	1822876-01	Methyl acrylate	7/30/2018	0	Y	y	v				ug/L
TB-1-072318	1822876-01	1,1-Dichloropropanone	7/30/2018	0	Y	y	v				ug/L
TB-1-072318	1822876-01	1-Chlorobutane	7/30/2018	0	Y	y	v				ug/L
TB-1-072318	1822876-01	Chloroacetonitrile	7/30/2018	0	Y	y	v				ug/L

SDG: 1822876

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-1-072318	1822876-01	o-Xylene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-072318	1822876-01	p- & m-Xylenes	7/30/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-1-072318	1822876-01	Carbon disulfide	7/30/2018	1	Y	n	u		1.0	0.48	ug/L
TB-1-072318	1822876-01	Propionitrile	7/30/2018	20	Y	n	u		20	6.2	ug/L
TB-1-072318	1822876-01	1,1,1,2-Tetrachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-072318	1822876-01	Methyl methacrylate	7/30/2018	5	Y	n	u		5.0	1.2	ug/L
TB-1-072318	1822876-01	Methyl isobutyl ketone	7/30/2018	10	Y	n	u		10	2.4	ug/L
TB-1-072318	1822876-01	Methyl ethyl ketone	7/30/2018	10	Y	n	u		10	3.3	ug/L
TB-1-072318	1822876-01	Methacrylonitrile	7/30/2018	10	Y	n	u		10	2.3	ug/L
TB-1-072318	1822876-01	2-Hexanone	7/30/2018	10	Y	n	u		10	5.0	ug/L
TB-1-072318	1822876-01	Hexachloroethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-1-072318	1822876-01	Ethyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-1-072318	1822876-01	Ethyl methacrylate	7/30/2018	4	Y	n	u		4.0	1.3	ug/L
TB-1-072318	1822876-01	Tetrahydrofuran	7/30/2018	20	Y	n	u		20	5.2	ug/L
TB-1-072318	1822876-01	Chloroform	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	1,3-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-1-072318	1822876-01	Tetrachloroethene	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-1-072318	1822876-01	1,2-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-072318	1822876-01	Dibromomethane	7/30/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-1-072318	1822876-01	1,2-Dibromoethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-1-072318	1822876-01	1,2-Dibromo-3-chloropropane	7/30/2018	1	Y	n	u		1.0	0.89	ug/L
TB-1-072318	1822876-01	Dibromochloromethane	7/30/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-1-072318	1822876-01	4-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-1-072318	1822876-01	Styrene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-1-072318	1822876-01	Chloromethane	7/30/2018	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1822876

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-1-072318	1822876-01	1,4-Dichlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	Chloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	Chlorobenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	Carbon tetrachloride	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	tert-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-072318	1822876-01	sec-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-072318	1822876-01	n-Butylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	Bromomethane	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-072318	1822876-01	Bromoform	7/30/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-1-072318	1822876-01	2-Chlorotoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	Ethylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	n-Propylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-1-072318	1822876-01	Naphthalene	7/30/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-1-072318	1822876-01	Methyl t-butyl ether	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	Methylene chloride	7/30/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-1-072318	1822876-01	p-Isopropyltoluene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	Isopropylbenzene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-1-072318	1822876-01	Hexachlorobutadiene	7/30/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-1-072318	1822876-01	Dichlorodifluoromethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	trans-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-072318	1822876-01	cis-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-072318	1822876-01	1,1-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	1,2-Dichloroethane	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	1,1-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-1-072318	1822876-01	cis-1,3-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1822876

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-1-072318	1822876-01	trans-1,2-Dichloroethene	7/30/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-1-072318	1822876-01	1,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-1-072318	1822876-01	1,3-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-1-072318	1822876-01	2,2-Dichloropropane	7/30/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-1-072318	1822876-01	1,1-Dichloropropene	7/30/2018	0.5	Y	n	u		0.50	0.19	ug/L

Analytical Method											
EPA-7196											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-072318	1822876-12	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-2	1822876-05	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-3	1822876-04	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-4	1822876-03	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-20-5	1822876-02	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
SB-1-072318	1822876-13	Hexavalent Chromium	7/24/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823058

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-2-072418	1823058-01	Water	07/24/18
MW-14-5	1823058-02	Water	07/24/18
MW-14-4	1823058-03	Water	07/24/18
MW-14-3	1823058-04	Water	07/24/18
MW-14-2	1823058-05	Water	07/24/18
MW-25-5	1823058-06	Water	07/24/18
MW-25-4	1823058-07	Water	07/24/18
MW-25-3	1823058-08	Water	07/24/18
MW-25-2	1823058-09	Water	07/24/18
MW-25-1	1823058-10	Water	07/24/18
DUP-2-3Q18	1823058-11	Water	07/24/18
EB-2-072418	1823058-12	Water	07/24/18
MW-14-3MS	1823058-04MS	Water	07/24/18
MW-14-3MSD	1823058-04MSD	Water	07/24/18

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	All samples in SDG 1823058	UJ (all non-detects)	P

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
07/30/18 (30Jul03)	Methyl iodide Pentachloroethane	49.8 57.0	MW-14-3 MW-14-2	UJ (all non-detects) UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
07/31/18 (31Jul03)	Bromomethane	60.5	TB-2-072418 MW-14-5 MW-14-4 MW-25-5 MW-25-4 MW-25-3 MW-25-2 MW-25-1 DUP-2-3Q18	UJ (all non-detects)	P
07/31/18 (31Jul04)	Methyl iodide Pentachloroethane	58.3 34.1	TB-2-072418 MW-14-5 MW-14-4 MW-25-5 MW-25-4 MW-25-3 MW-25-2 MW-25-1 DUP-2-3Q18	UJ (all non-detects) UJ (all non-detects)	P
07/31/18 (31Jul33)	Bromomethane	57.2	EB-2-072418	UJ (all non-detects)	P
07/31/18 (31Jul34)	Methyl iodide Pentachloroethane	56.4 41.2	EB-2-072418	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-2-072418 was identified as a trip blank. No contaminants were found.

Sample EB-2-072418 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-25-1 and DUP-2-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-25-1	DUP-2-3Q18	
Chloroform	0.37	0.41	10
Methyl-tert-butyl ether	0.46	0.35	27
Trichloroethene	0.98	0.88	11

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

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

NASA JPL, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823058

Sample	Compound	Flag	A or P	Reason
TB-2-072418 MW-14-5 MW-14-4 MW-14-3 MW-14-2 MW-25-5 MW-25-4 MW-25-3 MW-25-2 MW-25-1 DUP-2-3Q18 EB-2-072418	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
MW-14-3 MW-14-2	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)
TB-2-072418 MW-14-5 MW-14-4 MW-14-3 MW-25-5 MW-25-4 MW-25-3 MW-25-2 MW-25-1 DUP-2-3Q18 EB-2-072418	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823058

No Sample Data Qualified in this SDG

LDC #: 43014B1

VALIDATION COMPLETENESS WORKSHEET


Date: 09/12/18

SDG #: 1823058

Level III

Page: 1 of 7

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: 

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, SW	ICAL $\leq 20\%$ 22 ICV $\leq 30\%$
IV.	Continuing calibration	SW	CCV $\leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 12
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LES
X.	Field duplicates	SW	D = 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-2-072418	1823058-01	Water	07/24/18
2	MW-14-5	1823058-02	Water	07/24/18
3	MW-14-4	1823058-03	Water	07/24/18
4	MW-14-3	1823058-04	Water	07/24/18
5	MW-14-2	1823058-05	Water	07/24/18
6	MW-25-5	1823058-06	Water	07/24/18
7	MW-25-4	1823058-07	Water	07/24/18
8	MW-25-3	1823058-08	Water	07/24/18
9	MW-25-2	1823058-09	Water	07/24/18
10	MW-25-1	1823058-10	Water	07/24/18
11	DUP-2-3Q18	1823058-11	Water	07/24/18
12	EB-2-072418	1823058-12	Water	07/24/18
13	MW-14-3MS	1823058-04MS	Water	07/24/18

LDC #: 43014B1

VALIDATION COMPLETENESS WORKSHEET

Date: 09/12/18

SDG #: 1823058

Level III

Page: 2 of 7

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
14	MW-14-3MSD	1823058-04MSD	Water	07/24/18
15				
16				
17				
18				

Notes:

-1	B020162-BLK1				
-2	1815158 - CCB1				
-3	↓ - CCB2				

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC #: 43014BI

VALIDATION FINDINGS WORKSHEET Field Duplicates

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

Compound	Concentration (ug/L)		RPD (≤ %)
	10	11	
K	0.37	0.41	10
LL	0.46	0.35	27
S	0.98	0.88	11

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823058

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-3	1823058-04	Water	07/24/18
MW-14-2	1823058-05	Water	07/24/18
MW-25-5	1823058-06	Water	07/24/18
MW-25-4	1823058-07	Water	07/24/18
MW-25-3	1823058-08	Water	07/24/18
MW-25-2	1823058-09	Water	07/24/18
MW-25-1	1823058-10	Water	07/24/18
DUP-2-3Q18	1823058-11	Water	07/24/18
EB-2-072418	1823058-12	Water	07/24/18
MW-14-3MS	1823058-04MS	Water	07/24/18
MW-14-3MSD	1823058-04MSD	Water	07/24/18
MW-14-3DUP	1823058-04DUP	Water	07/24/18

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 method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	1.0510 ug/L	All samples in SDG 1823058

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-14-3	Chromium	1.4 ug/L	1.4U ug/L
MW-14-2	Chromium	1.3 ug/L	1.3U ug/L
MW-25-5	Chromium	1.3 ug/L	1.3U ug/L
MW-25-4	Chromium	3.0 ug/L	3.0U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-25-3	Chromium	4.3 ug/L	4.3U ug/L
MW-25-2	Chromium	4.0 ug/L	4.0U ug/L
MW-25-1	Chromium	2.7 ug/L	2.7U ug/L
DUP-2-3Q18	Chromium	2.5 ug/L	2.5U ug/L
EB-2-072418	Chromium	0.96 ug/L	0.96U ug/L

VI. Field Blanks

Sample EB-2-072418 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-2-072418	Chromium	0.96

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-25-1 and DUP-2-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-25-1	DUP-2-3Q18	
Chromium	2.7	2.5	8

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2018
Chromium - Data Qualification Summary - SDG 1823058

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823058

Sample	Analyte	Modified Final Concentration	A or P
MW-14-3	Chromium	1.4U ug/L	A
MW-14-2	Chromium	1.3U ug/L	A
MW-25-5	Chromium	1.3U ug/L	A
MW-25-4	Chromium	3.0U ug/L	A
MW-25-3	Chromium	4.3U ug/L	A
MW-25-2	Chromium	4.0U ug/L	A
MW-25-1	Chromium	2.7U ug/L	A
DUP-2-3Q18	Chromium	2.5U ug/L	A
EB-2-072418	Chromium	0.96U ug/L	A

LDC #: 43014B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/18

SDG #: 1823058

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *AC*2nd Reviewer: *AC***METHOD:** Metals (EPA Method 200.8)*Cr*

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	9 = EB
VII.	Matrix Spike/Matrix Spike Duplicates	A	(10, 11)
VIII.	Duplicate sample analysis	A	12
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(8, 7)
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-14-3	1823058-04	Water	07/24/18
2	MW-14-2	1823058-05	Water	07/24/18
3	MW-25-5	1823058-06	Water	07/24/18
4	MW-25-4	1823058-07	Water	07/24/18
5	MW-25-3	1823058-08	Water	07/24/18
6	MW-25-2	1823058-09	Water	07/24/18
7	MW-25-1	1823058-10	Water	07/24/18
8	DUP-2-3Q18	1823058-11	Water	07/24/18
9	EB-2-072418	1823058-12	Water	07/24/18
10	MW-14-3MS	1823058-04MS	Water	07/24/18
11	MW-14-3MSD	1823058-04MSD	Water	07/24/18
12	MW-14-3DUP	1823058-04DUP	Water	07/24/18
13				

Notes: _____

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

Soil preparation factor applied: NA
 Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	3	4	5	6	7	8	9
Cr		1.0510		5.255	1.4	1.3	1.3	3.0	4.3	4.0	2.7	2.5	0.96

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 #:43014B4a
SDG #: 1823058

VALIDATION FINDINGS WORKSHEET

Field Blanks

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

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

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

Sample: 9 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (ug/L)
Cr	0.96

LDC#: 43014B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: _____

METHOD: Metals (EPA Method 6010B/6020/7000/200.8)

Analyte	Concentration (ug/L)		RPD	
	7	8		
Chromium	2.7	2.5	8	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43014B4a.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823058

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-5	1823058-02	Water	07/24/18
MW-14-4	1823058-03	Water	07/24/18
MW-14-3	1823058-04	Water	07/24/18
MW-14-2	1823058-05	Water	07/24/18
MW-25-5	1823058-06	Water	07/24/18
MW-25-4	1823058-07	Water	07/24/18
MW-25-3	1823058-08	Water	07/24/18
MW-25-2	1823058-09	Water	07/24/18
MW-25-1	1823058-10	Water	07/24/18
DUP-2-3Q18	1823058-11	Water	07/24/18
EB-2-072418	1823058-12	Water	07/24/18
MW-14-5MS	1823058-02MS	Water	07/24/18
MW-14-5MSD	1823058-02MSD	Water	07/24/18
MW-14-5DUP	1823058-02DUP	Water	07/24/18
MW-14-3MS	1823058-04MS	Water	07/24/18
MW-14-3MSD	1823058-04MSD	Water	07/24/18
MW-14-3DUP	1823058-04DUP	Water	07/24/18

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:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method SW 846 Method 7196
Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-2-072418 was identified as an equipment blank. No contaminant concentrations were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-25-1 and DUP-2-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-25-1	DUP-2-3Q18	
Perchlorate	7.1	6.1	15

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

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

NASA JPL, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823058

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823058

No Sample Data Qualified in this SDG

LDC #: 43014B6
 SDG #: 1823058
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 9/12/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A-A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	11=EB
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12,13), (15,16)
VII.	Duplicate sample analysis	A	14, 17
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(10, 9)
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-14-5	1823058-02	Water	07/24/18
2	MW-14-4	1823058-03	Water	07/24/18
3	MW-14-3	1823058-04	Water	07/24/18
4	MW-14-2	1823058-05	Water	07/24/18
5	MW-25-5	1823058-06	Water	07/24/18
6	MW-25-4	1823058-07	Water	07/24/18
7	MW-25-3	1823058-08	Water	07/24/18
8	MW-25-2	1823058-09	Water	07/24/18
9	MW-25-1	1823058-10	Water	07/24/18
10	DUP-2-3Q18	1823058-11	Water	07/24/18
11	EB-2-072418	1823058-12	Water	07/24/18
12	MW-14-5MS	1823058-02MS	Water	07/24/18
13	MW-14-5MSD	1823058-02MSD	Water	07/24/18
14	MW-14-5DUP	1823058-02DUP	Water	07/24/18
15	MW-14-3MS	1823058-04MS	Water	07/24/18
16	MW-14-3MSD	1823058-04MSD	Water	07/24/18
17	MW-14-3DUP	1823058-04DUP	Water	07/24/18

LDC# 43014B6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

Inorganics: Method See Cover

Analyte	Concentration (ug/L)		RPD	
	9	10		
Perchlorate	7.1	6.1	15	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43014B6.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823213

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-3-072518	1823213-01	Water	07/25/18
MW-3-4	1823213-02	Water	07/25/18
MW-3-3**	1823213-03**	Water	07/25/18
MW-3-2	1823213-04	Water	07/25/18
MW-18-5	1823213-05	Water	07/25/18
MW-18-4	1823213-06	Water	07/25/18
MW-18-3	1823213-07	Water	07/25/18
MW-18-2	1823213-08	Water	07/25/18
MW-26-2	1823213-09	Water	07/25/18
MW-26-1	1823213-10	Water	07/25/18
EB-3-072518	1823213-11	Water	07/25/18

**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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	All samples in SDG 1823213	UJ (all non-detects)	P

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
07/31/18 (31Jul33)	Bromomethane	57.2	All samples in SDG 1823213	UJ (all non-detects)	P
07/31/18 (31Jul34)	Methyl iodide Pentachloroethane	56.4 41.2	All samples in SDG 1823213	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-3-072518 was identified as a trip blank. No contaminants were found.

Sample EB-3-072518 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

Due to ICV and 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, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823213

Sample	Compound	Flag	A or P	Reason
TB-3-072518 MW-3-4 MW-3-3** MW-3-2 MW-18-5 MW-18-4 MW-18-3 MW-18-2 MW-26-2 MW-26-1 EB-3-072518	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
TB-3-072518 MW-3-4 MW-3-3** MW-3-2 MW-18-5 MW-18-4 MW-18-3 MW-18-2 MW-26-2 MW-26-1 EB-3-072518	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823213

No Sample Data Qualified in this SDG

LDC #: 43014C1

VALIDATION COMPLETENESS WORKSHEET

Date: 09/12/18

SDG #: 1823213

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: SVG

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A SW	ICAL \leq 20% \checkmark ICN \leq 30%
IV.	Continuing calibration	SW	CON \leq 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 11
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	NA	CS 1822876-05 ; 1823058-04
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 underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
-				
1	TB-3-072518	1823213-01	Water	07/25/18
+ 2	MW-3-4	1823213-02	Water	07/25/18
- 3	MW-3-3**	1823213-03**	Water	07/25/18
- 4	MW-3-2	1823213-04	Water	07/25/18
- 5	MW-18-5	1823213-05	Water	07/25/18
+ 6	MW-18-4	1823213-06	Water	07/25/18
+ 7	MW-18-3	1823213-07	Water	07/25/18
- 8 2	MW-18-2	1823213-08	Water	07/25/18
+ 9 2	MW-26-2	1823213-09	Water	07/25/18
+ 10 2	MW-26-1	1823213-10	Water	07/25/18
- 11	EB-3-072518	1823213-11	Water	07/25/18
12				
13	B020161 - BLK 1			

2 B020162 - 1

3 1815158 - CCB2

L:\TidewaterNASA JPL\43014C1W.wpd

LDC #: 43014 C1

VALIDATION FINDINGS CHECKLIST

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

Method: Volatiles (EPA Method 524.2)

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

LDC #: 43014C1

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%?	/			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		/		
Were target compounds detected in the field duplicates?			/	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	/			
Were retention times within +/-30 seconds of the associated calibration standard?	/			
XII. Compound quantitation/CRQLs				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	07/12/18	Chloroform (IS1)	0.787482	0.787482	0.788753	0.788753	3.308	3.308
			Trichloroethene (IS2)	0.362797	0.362797	0.369107	0.369107	5.329	5.329
			Ethylbenzene (IS3)	2.010099	2.010099	1.949139	1.949139	6.312	6.312

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	30JUL02 MS V5	07/30/18	Chloroform (IS1)	0.788753	0.827019	0.827019	4.9	4.9
			Trichloroethene (IS2)	0.369107	0.381701	0.381701	3.4	3.4
			Ethylbenzene (IS3)	1.949139	2.037135	2.037135	4.5	4.5
2	31JUL33 MS V5	07/31/18	Chloroform (IS1)	0.788753	0.759125	0.759125	3.8	3.8
			Trichloroethene (IS2)	0.369107	0.362093	0.362093	1.9	1.9
			Ethylbenzene (IS3)	1.949139	1.861900	1.861900	4.5	4.5

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # 3

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	16.05	100	100	0
Bromofluorobenzene	↓	9.61	96.1	96.1	↓
1,2-Dichlorobenzene-d4	↓	9.64	96.4	96.4	↓
Dibromofluoromethane					

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

LDC #: 43014C1

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 1822876-05 MS/MSD

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	26.57	26.35	106	106	105	105	0.831	0.831
Trichloroethene	↓	↓	0.47	25.95	25.73	102	102	101	101	0.851	0.85
Benzene	↓	↓	0	25.12	25.85	100	100	103	103	2.86	2.86
Toluene	↓	↓	↓	25.7	25.28	103	103	101	101	1.65	1.65
Chlorobenzene	↓	↓	↓	24.31	25.89	97.2	97.2	104	104	6.29	6.29

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 #: 43014C1

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
SA = Spike added

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

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: B020161-BS1

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	26.97	NA	106	106				
Trichloroethene	↓	↓	24.79	↓	99.2	99.2				
Benzene	↓	↓	25.15	↓	101	101				
Toluene	↓	↓	24.69	↓	98.8	98.8				
Chlorobenzene	↓	↓	23.82	↓	95.3	95.3				

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823213

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-4	1823213-02	Water	07/25/18
MW-3-3**	1823213-03**	Water	07/25/18
MW-3-2	1823213-04	Water	07/25/18
MW-18-4	1823213-06	Water	07/25/18
MW-18-3	1823213-07	Water	07/25/18
MW-18-2	1823213-08	Water	07/25/18
MW-26-2	1823213-09	Water	07/25/18
MW-26-1	1823213-10	Water	07/25/18
EB-3-072518	1823213-11	Water	07/25/18
MW-3-4MS	1823213-02MS	Water	07/25/18
MW-3-4MSD	1823213-02MSD	Water	07/25/18
MW-3-4DUP	1823213-02DUP	Water	07/25/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

ICP interference check sample analysis data were not required by the method.

V. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	1.2290 ug/L	All samples in SDG 1823213

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-3-3**	Chromium	3.0 ug/L	3.0U ug/L
MW-3-2	Chromium	1.1 ug/L	1.1U ug/L
MW-18-4	Chromium	3.4 ug/L	3.4U ug/L
MW-18-3	Chromium	2.9 ug/L	2.9U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-18-2	Chromium	1.2 ug/L	1.2U ug/L
MW-26-2	Chromium	3.0 ug/L	3.0U ug/L
MW-26-1	Chromium	1.3 ug/L	1.3U ug/L
EB-3-072518	Chromium	1.6 ug/L	1.6U ug/L

VI. Field Blanks

Sample EB-3-072518 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-3-072518	Chromium	1.6

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

Due to laboratory blank contamination, data were qualified as not detected in eight 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, 3Q2018
Chromium - Data Qualification Summary - SDG 1823213

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823213

Sample	Analyte	Modified Final Concentration	A or P
MW-3-3**	Chromium	3.0U ug/L	A
MW-3-2	Chromium	1.1U ug/L	A
MW-18-4	Chromium	3.4U ug/L	A
MW-18-3	Chromium	2.9U ug/L	A
MW-18-2	Chromium	1.2U ug/L	A
MW-26-2	Chromium	3.0U ug/L	A
MW-26-1	Chromium	1.3U ug/L	A
EB-3-072518	Chromium	1.6U ug/L	A

LDC #: 43014C4a
 SDG #: 1823213
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 9/12/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.8)
 Cr

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

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

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

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-3-4	1823213-02	Water	07/25/18
2	MW-3-3**	1823213-03**	Water	07/25/18
3	MW-3-2	1823213-04	Water	07/25/18
4	MW-18-4	1823213-06	Water	07/25/18
5	MW-18-3	1823213-07	Water	07/25/18
6	MW-18-2	1823213-08	Water	07/25/18
7	MW-26-2	1823213-09	Water	07/25/18
8	MW-26-1	1823213-10	Water	07/25/18
9	EB-3-072518	1823213-11	Water	07/25/18
10	MW-3-4MS	1823213-02MS	Water	07/25/18
11	MW-3-4MSD	1823213-02MSD	Water	07/25/18
12	MW-3-4DUP	1823213-02DUP	Water	07/25/18
13				

Notes: _____

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

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

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

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	2	3	4	5	6	7	8	9	
Cr		1.2290		6.145	3.0	1.1	3.4	2.9	1.2	3.0	1.3	1.6	

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.

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV ₁	ICP/MS (Initial calibration) 8/2 @ 10:26	Cr	50.871	50.000	102	102	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV _F	ICP/MS (Continuing calibration) 8/2 @ 20:18	Cr	37.777	40.000	94.4	94.4	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
CO	Mass Axis	58.933	58.925	± 0.1 AMU	NA	Y
Rh	%RSD	102.9	414474.8	≤ 5% RSD	2.3	Y

Comments:

LDC #: 43014C4a

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	µg/L Found / S / I (units)	µg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 8/2 e 19:44	Cr	41.867	40.000	105	105	Y
10	Matrix spike 8/2 e 20:01	Cr	(SSR-SR) 39.141	40.000	97.9	97.5	Y
10/11	Duplicate 8/2 e 20:04	Cr	49.210	51.141	3.85	3.85	Y
1	Post digestion spike 8/2 e 20:08	Cr	34.262	40.000	85.7	85.9	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823213

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-4	1823213-02	Water	07/25/18
MW-3-3**	1823213-03**	Water	07/25/18
MW-3-2	1823213-04	Water	07/25/18
MW-18-5	1823213-05	Water	07/25/18
MW-18-4	1823213-06	Water	07/25/18
MW-18-3	1823213-07	Water	07/25/18
MW-18-2	1823213-08	Water	07/25/18
MW-26-2	1823213-09	Water	07/25/18
MW-26-1	1823213-10	Water	07/25/18
EB-3-072518	1823213-11	Water	07/25/18
MW-3-4MS	1823213-02MS	Water	07/25/18
MW-3-4MSD	1823213-02MSD	Water	07/25/18
MW-3-4DUP	1823213-02DUP	Water	07/25/18
MW-3-3MS	1823213-03MS	Water	07/25/18
MW-3-3MSD	1823213-03MSD	Water	07/25/18
MW-3-3DUP	1823213-03DUP	Water	07/25/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Perchlorate	0.90240 ug/L	MW-18-2 MW-26-2 MW-26-1 EB-3-072518

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-26-2	Perchlorate	3.3 ug/L	3.3U ug/L
MW-26-1	Perchlorate	1.7 ug/L	1.7U ug/L

V. Field Blanks

Sample EB-3-072518 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to laboratory blank contamination, data were qualified as not detected in two 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, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823213

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823213

Sample	Analyte	Modified Final Concentration	A or P
MW-26-2	Perchlorate	3.3U ug/L	A
MW-26-1	Perchlorate	1.7U ug/L	A

LDC #: 43014C6
 SDG #: 1823213
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 9/12/18
 Page: 1 of 1
 Reviewer: ATV
 2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	SW	
V	Field blanks	ND	EB=10
VI.	Matrix Spike/Matrix Spike Duplicates	A	(11,12), (14,15)
VII.	Duplicate sample analysis	A	13, 16
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for Level III validation.
XI	Overall assessment of data	A	

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

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-3-4	1823213-02	Water	07/25/18
2	MW-3-3**	1823213-03**	Water	07/25/18
3	MW-3-2	1823213-04	Water	07/25/18
4	MW-18-5	1823213-05	Water	07/25/18
5	MW-18-4	1823213-06	Water	07/25/18
6	MW-18-3	1823213-07	Water	07/25/18
7	MW-18-2	1823213-08	Water	07/25/18
8	MW-26-2	1823213-09	Water	07/25/18
9	MW-26-1	1823213-10	Water	07/25/18
10	EB-3-072518	1823213-11	Water	07/25/18
11	MW-3-4MS	1823213-02MS	Water	07/25/18
12	MW-3-4MSD	1823213-02MSD	Water	07/25/18
13	MW-3-4DUP	1823213-02DUP	Water	07/25/18
14	MW-3-3MS	1823213-03MS	Water	07/25/18
15	MW-3-3MSD	1823213-03MSD	Water	07/25/18
16	MW-3-3DUP	1823213-03DUP	Water	07/25/18
17				

Method: Inorganics (EPA Method see cover)

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

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: ug/L

Associated Samples: 7 to 10

Analyte	Blank ID	Blank ID	Blank Action Limit												
	PB	ICB/CCB (ug/L)		8	9										
CIO4		0.90240	4.512	3.3	1.7										

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 #: 43014CG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄⁻ was recalculated. Calibration date: 8/14/18

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

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

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

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	ClO ₄ ⁻	s1	2	0.0022	0.9966	0.9969	Y
		s2	4	0.0043			
		s3	6	0.0066			
		s4	10	0.0121			
		s5	20	0.0222			
CCV ₁ (8/15 @ 20:29) Calibration verification	ClO ₄ ⁻	FOUND 9.750	TRUE 10.000		98	101	Y
CCV ₁ Calibration verification	Cr ⁶⁺	0.051	0.0500		102	102	Y
CCV ₂ Calibration verification	Cr ⁶⁺	0.051	0.0500		102	102	Y

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

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	Cr6+	0.0530 mg/L	0.0500 mg/L	106	104	Y
11	Matrix spike sample 8/15 e 18:23	ClO ₄ ⁻	(SSR-SR) 9.832 mg/L	10.101 mg/L	97	100	Y
11/12	Duplicate sample 8/15 e 18:38	ClO ₄ ⁻	10.638 mg/L	10.957 mg/L	2.96	4.15	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018
LDC Report Date: September 13, 2018
Parameters: Volatiles
Validation Level: Level III & IV
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1823367

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-4-072618	1823367-01	Water	07/26/18
MW-22-3	1823367-02	Water	07/26/18
MW-22-2	1823367-03	Water	07/26/18
MW-22-1**	1823367-04**	Water	07/26/18
MW-21-5	1823367-05	Water	07/26/18
MW-21-4**	1823367-06**	Water	07/26/18
MW-21-3	1823367-07	Water	07/26/18
MW-21-2	1823367-08	Water	07/26/18
EB-4-072618	1823367-09	Water	07/26/18
MW-21-3MS	1823367-07MS	Water	07/26/18
MW-21-3MSD	1823367-07MSD	Water	07/26/18

**Indicates sample underwent Level IV review

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

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

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

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	All samples in SDG 1823367	UJ (all non-detects)	P

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
07/31/18 (31Jul03)	Bromomethane	60.5	MW-21-3	UJ (all non-detects)	P
07/31/18 (31Jul04)	Methyl iodide Pentachloroethane	58.3 34.1	MW-21-3	UJ (all non-detects) UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
07/31/18 (31Jul33)	Bromomethane	57.2	TB-4-072618 MW-22-3 MW-22-2 MW-22-1** MW-21-5 MW-21-4** MW-21-2 EB-4-072618	UJ (all non-detects)	P
07/31/18 (31Jul34)	Methyl iodide Pentachloroethane	56.4 41.2	TB-4-072618 MW-22-3 MW-22-2 MW-22-1** MW-21-5 MW-21-4** MW-21-2 EB-4-072618	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-4-072618 was identified as a trip blank. No contaminants were found.

Sample EB-4-072618 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823367

Sample	Compound	Flag	A or P	Reason
TB-4-072618 MW-22-3 MW-22-2 MW-22-1** MW-21-5 MW-21-4** MW-21-3 MW-21-2 EB-4-072618	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
TB-4-072618 MW-22-3 MW-22-2 MW-22-1** MW-21-5 MW-21-4** MW-21-3 MW-21-2 EB-4-072618	Bromomethane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823367

No Sample Data Qualified in this SDG

LDC #: 43014D1

VALIDATION COMPLETENESS WORKSHEET

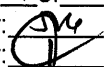

Date: 09/12/18

SDG #: 1823367

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: 
2nd Reviewer: 

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / SW	ICV $\leq 20\%$ \checkmark ICV $\leq 30\%$
IV.	Continuing calibration	SW	CV $\leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 9
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LC5
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 underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-4-072618	1823367-01	Water	07/26/18
2	MW-22-3	1823367-02	Water	07/26/18
3	MW-22-2	1823367-03	Water	07/26/18
4	MW-22-1 **	1823367-04**	Water	07/26/18
5	MW-21-5	1823367-05	Water	07/26/18
6	MW-21-4 **	1823367-06**	Water	07/26/18
7	MW-21-3	1823367-07	Water	07/26/18
8	MW-21-2	1823367-08	Water	07/26/18
9	EB-4-072618	1823367-09	Water	07/26/18
10	MW-21-3MS	1823367-07MS	Water	07/26/18
11	MW-21-3MSD	1823367-07MSD	Water	07/26/18
12				
13	B020163 - Blk I			

- 2 1819188 - CCB2

LDC #: 43014 D1

VALIDATION FINDINGS CHECKLIST

Page: 1 of 7
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: Volatiles (EPA Method 524.2)

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

LDC #: 43014 D1

VALIDATION FINDINGS CHECKLIST

Page: 2 of 7
 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%?	/			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		/		
Were target compounds detected in the field duplicates?			/	
XI. Internal standards				
Were internal standard area counts within +/-30% of the area of the most recent continuing calibration standard and +/-50% of the average peak area in the initial calibration?	/			
Were retention times within +/-30 seconds of the associated calibration standard?	/			
XII. Compound quantitation/CRQLs				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) or regression equations used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	07/12/18	Chloroform (IS1)	0.787482	0.787482	0.788753	0.788753	3.308	3.308
			Trichloroethene (IS2)	0.362797	0.362797	0.369107	0.369107	5.329	5.329
			Ethylbenzene (IS3)	2.010099	2.010099	1.949139	1.949139	6.312	6.312

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:

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

ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 Ax = Area of compound,

Cx = Concentration of compound,
 Ais = Area of associated internal standard
 Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	31JUL33 MS V5	07/31/18	Chloroform (IS1)	0.788753	0.759125	0.759125	3.8	3.8
			Trichloroethene (IS2)	0.369107	0.362093	0.362093	1.9	1.9
			Ethylbenzene (IS3)	1.949139	1.861900	1.861900	4.5	4.5

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.98	99.8	99.8	0
Bromofluorobenzene	↓	9.69	96.9	96.9	↓
1,2-Dichlorobenzene-d4	↓	10.42	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					

LDC #: 43014 D1

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1

Reviewer: JVG

2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 10 / 11

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	25.37	25.39	101	101	102	102	0.0788	0.079
Trichloroethene	↓	↓	0.63	25.61	25.64	99.9	99.9	100	100	0.117	0.117
Benzene	↓	↓	0	25.53	25.22	102	102	101	101	1.22	1.22
Toluene	↓	↓	↓	25.27	25.00	101	101	100	100	1.15	1.15
Chlorobenzene	↓	↓	↓	24.95	24.93	99.8	99.8	99.7	99.7	0.082	0.08

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 #: 43014 D1

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample Results Verification

Reviewer: JVG
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = $100 * SSC/SA$

Where: SSC = Spiked sample concentration
 SA = Spike added

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

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: B020163-B51

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	25.0	NA	24.73	NA	98.9	98.9				
Trichloroethene			25.55		107	107				
Benzene			24.60		98.6	98.6				
Toluene			24.38		97.5	97.5				
Chlorobenzene			24.44		97.8	97.8				

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823367

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-3	1823367-02	Water	07/26/18
MW-22-2	1823367-03	Water	07/26/18
MW-22-1**	1823367-04**	Water	07/26/18
MW-21-5	1823367-05	Water	07/26/18
MW-21-4**	1823367-06**	Water	07/26/18
MW-21-3	1823367-07	Water	07/26/18
MW-21-2	1823367-08	Water	07/26/18
EB-4-072618	1823367-09	Water	07/26/18
MW-21-2MS	1823367-08MS	Water	07/26/18
MW-21-2MSD	1823367-08MSD	Water	07/26/18
MW-21-2DUP	1823367-08DUP	Water	07/26/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

ICP interference check sample analysis data were not required by the method.

V. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.828 ug/L	All samples in SDG 1823367

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-22-3	Chromium	2.7 ug/L	2.7U ug/L
MW-22-2	Chromium	3.3 ug/L	3.3U ug/L
MW-22-1**	Chromium	1.9 ug/L	1.9U ug/L
MW-21-5	Chromium	2.1 ug/L	2.1U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-21-4**	Chromium	2.2 ug/L	2.2U ug/L
MW-21-3	Chromium	1.3 ug/L	1.3U ug/L
MW-21-2	Chromium	1.1 ug/L	1.1U ug/L
EB-4-072618	Chromium	2.2 ug/L	2.2U ug/L

VI. Field Blanks

Sample EB-4-072618 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-4-072618	Chromium	2.2

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

Due to laboratory blank contamination, data were qualified as not detected in eight 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, 3Q2018
Chromium - Data Qualification Summary - SDG 1823367

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823367

Sample	Analyte	Modified Final Concentration	A or P
MW-22-3	Chromium	2.7U ug/L	A
MW-22-2	Chromium	3.3U ug/L	A
MW-22-1**	Chromium	1.9U ug/L	A
MW-21-5	Chromium	2.1U ug/L	A
MW-21-4**	Chromium	2.2U ug/L	A
MW-21-3	Chromium	1.3U ug/L	A
MW-21-2	Chromium	1.1U ug/L	A
EB-4-072618	Chromium	2.2U ug/L	A

LDC #: 43014D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/18

SDG #: 1823367

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *ATC*2nd Reviewer: *ATC*METHOD: ~~Metals~~ (EPA Method 200.8)

CV

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

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

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-22-3	1823367-02	Water	07/26/18
2	MW-22-2	1823367-03	Water	07/26/18
3	MW-22-1 **	1823367-04**	Water	07/26/18
4	MW-21-5	1823367-05	Water	07/26/18
5	MW-21-4 **	1823367-06**	Water	07/26/18
6	MW-21-3	1823367-07	Water	07/26/18
7	MW-21-2	1823367-08	Water	07/26/18
8	EB-4-072618	1823367-09	Water	07/26/18
9	MW-21-2MS	1823367-08MS	Water	07/26/18
10	MW-21-2MSD	1823367-08MSD	Water	07/26/18
11	MW-21-2DUP	1823367-08DUP	Water	07/26/18
12				
13				

Notes:

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

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

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

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: NA
 Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	3	4	5	6	7	8	
Cr		0.828		4.14	2.7	3.3	1.9	2.1	2.2	1.3	1.1	2.2	

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

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

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 812 @ 10:26	Cr	50.871	50.000	102	102	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVP	ICP/MS (Continuing calibration) 813 @ 02:56	Cr	41.816	40.000	105	105	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	58.933	58.925	± 0.1 AMU	NA	Y
	%RSD	102.9	414474.8	≤ 5% RSD	2.3	Y

Comments:

LDC #: 43014D4a

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 8/3 e 01:41	Cr	41.203	40.000	103	103	Y
9	Matrix spike 8/3 e 01:58	Cr	(SSR-SR) 37.512	40.000	93.8	93.9	Y
9/10	Duplicate 8/3 e 02:01	Cr	37.067	38.612	4.08	4.08	Y
7	Post digestion spike 8/3 e 02:05	Cr	35.847	40.000	89.6	89.8	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823367

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-3	1823367-02	Water	07/26/18
MW-22-2	1823367-03	Water	07/26/18
MW-22-1**	1823367-04**	Water	07/26/18
MW-21-5	1823367-05	Water	07/26/18
MW-21-4**	1823367-06**	Water	07/26/18
MW-21-3	1823367-07	Water	07/26/18
MW-21-2	1823367-08	Water	07/26/18
EB-4-072618	1823367-09	Water	07/26/18
MW-22-3MS	1823367-02MS	Water	07/26/18
MW-22-3MSD	1823367-02MSD	Water	07/26/18
MW-22-3DUP	1823367-02DUP	Water	07/26/18
MW-21-3MS	1823367-07MS	Water	07/26/18
MW-21-3MSD	1823367-07MSD	Water	07/26/18
MW-21-3DUP	1823367-07DUP	Water	07/26/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-4-072618 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

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, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823367

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823367

No Sample Data Qualified in this SDG

LDC #: 43014D6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/18

SDG #: 1823367

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

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

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB = 8
VI.	Matrix Spike/Matrix Spike Duplicates	A	(9,10), (12,13)
VII.	Duplicate sample analysis	A	11, 14
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for Level III validation.
XI	Overall assessment of data	A	

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

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	MW-22-3	1823367-02	Water	07/26/18
2	MW-22-2	1823367-03	Water	07/26/18
3	MW-22-1**	1823367-04**	Water	07/26/18
4	MW-21-5	1823367-05	Water	07/26/18
5	MW-21-4**	1823367-06**	Water	07/26/18
6	MW-21-3	1823367-07	Water	07/26/18
7	MW-21-2	1823367-08	Water	07/26/18
8	EB-4-072618	1823367-09	Water	07/26/18
9	MW-22-3MS	1823367-02MS	Water	07/26/18
10	MW-22-3MSD	1823367-02MSD	Water	07/26/18
11	MW-22-3DUP	1823367-02DUP	Water	07/26/18
12	MW-21-3MS	1823367-07MS	Water	07/26/18
13	MW-21-3MSD	1823367-07MSD	Water	07/26/18
14	MW-21-3DUP	1823367-07DUP	Water	07/26/18
15				

Notes: _____

Method: Inorganics (EPA Method see cover)

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

VALIDATION FINDINGS CHECKLIST

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

LDC #: 43014DG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 06/21/18

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

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

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

Type of analysis	Analyte	Standard	Conc. (mg/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr6+	s1	0.0	0.00238	0.99993	0.99986	Y
		s2	0.002	0.00372			
		s3	0.005	0.00567			
		s4	0.025	0.01881			
		s5	0.05	0.03503			
		s6	0.1	0.06669			
CCV2 Calibration verification	Cr6+	FOUND 0.051	TRUE 0.0500		102	102	Y
CCV4 (8/16 @ 6:33) Calibration verification	ClO4 ⁻	8.862	10.000		88.6	87.2	Y
CCV5 (8/16 @ 9:37) Calibration verification	ClO4 ⁻	9.750	10.000		97.5	98.5	Y

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

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 8/16c 07:04	ClO4 ⁻	10.638 mg/L	10.000 mg/L	106	109	Y
12	Matrix spike sample	Cr6+	(SSR-SR) mg/L 0.0491	mg/L 0.052632	93	102	Y
12/13	Duplicate sample	Cr6+	mg/L 0.051	mg/L 0.053744	5.2	0.436	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 17, 2018

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823695

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-6-073118	1823695-01	Water	07/31/18
MW-23-3	1823695-03	Water	07/31/18
MW-23-2	1823695-04	Water	07/31/18
MW-23-1	1823695-05	Water	07/31/18
Dup-4-3Q18	1823695-06	Water	07/31/18
MW-4-3	1823695-07	Water	07/31/18
MW-4-2	1823695-08	Water	07/31/18
MW-4-1	1823695-09	Water	07/31/18
EB-6-073118	1823695-10	Water	07/31/18

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

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

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	All samples in SDG 1823695	UJ (all non-detects)	P

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
08/03/18 (02Aug64)	Bromomethane 2,2-Dichloropropane	47.0 36.1	TB-6-073118 MW-23-3 MW-23-2 MW-23-1 Dup-4-3Q18 MW-4-3	UJ (all non-detects) UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
08/03/18 (02Aug65)	Methyl iodide Pentachloroethane	42.0 43.7	TB-6-073118 MW-23-3 MW-23-2 MW-23-1 Dup-4-3Q18 MW-4-3	UJ (all non-detects) UJ (all non-detects)	P
08/03/18 (03Aug26)	Bromomethane	51.0	MW-4-2 MW-4-1 EB-6-073118	UJ (all non-detects)	P
08/03/18 (03Aug27)	Methyl iodide	56.3	MW-4-2 MW-4-1 EB-6-073118	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-6-073118 was identified as a trip blank. No contaminants were found.

Sample EB-6-073118 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-23-1 and Dup-4-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-23-1	Dup-4-3Q18	
Chloroform	0.38	0.37	3
Trichloroethene	1.3	1.1	17

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 ICV and continuing calibration %D, data were qualified as estimated in nine samples.

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

NASA JPL, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823695

Sample	Compound	Flag	A or P	Reason
TB-6-073118 MW-23-3 MW-23-2 MW-23-1 Dup-4-3Q18 MW-4-3 MW-4-2 MW-4-1 EB-6-073118	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
TB-6-073118 MW-23-3 MW-23-2 MW-23-1 Dup-4-3Q18 MW-4-3	Bromomethane 2,2-Dichloropropane Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)
MW-4-2 MW-4-1 EB-6-073118	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823695

No Sample Data Qualified in this SDG

LDC #: 43014E1

VALIDATION COMPLETENESS WORKSHEET

Date: 09/12/18

SDG #: 1823695

Level III

Page: 1 of 1

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/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	ICAL ≤ 20% ICV ≤ 30%
IV.	Continuing calibration	SW	CV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 4
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 4/5
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-6-073118	1823695-01	Water	07/23/18
2	MW-23-3	1823695-03	Water	07/23/18
3	MW-23-2	1823695-04	Water	07/23/18
4	MW-23-1	1823695-05	Water	07/23/18
5	Dup-4-3Q18	1823695-06	Water	07/23/18
6	MW-4-3	1823695-07	Water	07/23/18
7	MW-4-2	1823695-08	Water	07/23/18
8	MW-4-1	1823695-09	Water	07/23/18
9	EB-6-073118	1823695-10	Water	07/23/18
10				

Notes:

1	B 020600 - BUKI				
2	1815476 - CCB2				

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC #: 43014 E1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A
 Y N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ %)
	4	5	
K	0.38	0.37	3
S	1.3	1.1	17

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 13, 2018

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823695

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-4	1823695-02	Water	07/31/18
MW-23-3	1823695-03	Water	07/31/18
MW-23-2	1823695-04	Water	07/31/18
MW-23-1	1823695-05	Water	07/31/18
Dup-4-3Q18	1823695-06	Water	07/31/18
MW-4-3	1823695-07	Water	07/31/18
MW-4-2	1823695-08	Water	07/31/18
MW-4-1	1823695-09	Water	07/31/18
EB-6-073118	1823695-10	Water	07/31/18
MW-23-4MS	1823695-02MS	Water	07/31/18
MW-23-4MSD	1823695-02MSD	Water	07/31/18
MW-23-4DUP	1823695-02DUP	Water	07/31/18

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

VI. Field Blanks

Sample EB-6-073118 was identified as an equipment blank. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-23-1 and Dup-4-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-23-1	Dup-4-3Q18	
Chromium	1.3	1.5	14

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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, 3Q2018
Chromium - Data Qualification Summary - SDG 1823695

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823695

No Sample Data Qualified in this SDG

LDC #: 43014E4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/18

SDG #: 1823695

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

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

METHOD: Metals (EPA Method 200.8)

CR

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required.
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=9
VII.	Matrix Spike/Matrix Spike Duplicates	A	(10, 11)
VIII.	Duplicate sample analysis	A	12
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(4, 5)
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A.	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-23-4	1823695-02	Water	07/23/18 31
2	MW-23-3	1823695-03	Water	07/23/18 31
3	MW-23-2	1823695-04***	Water	07/23/18 31
4	MW-23-1	1823695-05	Water	07/23/18 31
5	Dup-4-3Q18	1823695-06	Water	07/23/18 31
6	MW-4-3	1823695-07	Water	07/23/18 31
7	MW-4-2	1823695-08	Water	07/23/18 31
8	MW-4-1	1823695-09	Water	07/23/18 31
9	EB-6-073118	1823695-10	Water	07/23/18 31
10	MW-23-4MS	1823695-02MS	Water	07/23/18 31
11	MW-23-4MSD	1823695-02MSD	Water	07/23/18 31
12	MW-23-4DUP	1823695-02DUP	Water	07/23/18 31
13				

Notes: _____

LDC#: 43014E4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 6010B/6020/7000/200.8)

Analyte	Concentration (ug/L)		RPD	
	4	5		
Chromium	1.3	1.5	14	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43014E4a.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 18, 2018

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823695

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-4	1823695-02	Water	07/31/18
MW-23-3	1823695-03	Water	07/31/18
MW-23-2	1823695-04	Water	07/31/18
MW-23-1	1823695-05	Water	07/31/18
Dup-4-3Q18	1823695-06	Water	07/31/18
MW-4-3	1823695-07	Water	07/31/18
MW-4-2	1823695-08	Water	07/31/18
MW-4-1	1823695-09	Water	07/31/18
EB-6-073118	1823695-10	Water	07/31/18
MW-23-4MS	1823695-02MS	Water	07/31/18
MW-23-4MSD	1823695-02MSD	Water	07/31/18
MW-23-4DUP	1823695-02DUP	Water	07/31/18
MW-23-3MS	1823695-03MS	Water	07/31/18
MW-23-3MSD	1823695-03MSD	Water	07/31/18
MW-23-3DUP	1823695-03DUP	Water	07/31/18

Introduction

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

The analyses were performed by the following methods:

Hexavalent Chromium by Environmental Protection Agency (EPA) SW 846 Method SW 846 Method 7196
Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-6-073118 was identified as an equipment blank. No contaminant concentrations were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-23-1 and Dup-4-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-23-1	Dup-4-3Q18	
Hexavalent chromium	0.00070U	0.011	176
Perchlorate	2.2	2.5	13

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

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

NASA JPL, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823695

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823695

No Sample Data Qualified in this SDG

LDC #: 43014E6
 SDG #: 1823695
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 9/12/18
 Page: 1 of 1
 Reviewer: ATL
 2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A - A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB=9
VI.	Matrix Spike/Matrix Spike Duplicates	A	(10,11), (13,14)
VII.	Duplicate sample analysis	A	12, 15
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(4,5)
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-23-4	1823695-02	Water	07/23/18 31
2	MW-23-3	1823695-03	Water	07/23/18 31
3	MW-23-2	1823695-04**	Water	07/23/18 31
4	MW-23-1	1823695-05	Water	07/23/18 31
5	Dup-4-3Q18	1823695-06	Water	07/23/18 31
6	MW-4-3	1823695-07	Water	07/23/18 31
7	MW-4-2	1823695-08	Water	07/23/18 31
8	MW-4-1	1823695-09	Water	07/23/18 31
9	EB-6-073118	1823695-10	Water	07/23/18 31
10	MW-23-4MS	1823695-02MS	Water	07/23/18 31
11	MW-23-4MSD	1823695-02MSD	Water	07/23/18 31
12	MW-23-4DUP	1823695-02DUP	Water	07/23/18 31
13	MW-23-3MS	1823695-03MS	Water	07/23/18 31
14	MW-23-3MSD	1823695-03MSD	Water	07/23/18 31
15	MW-23-3DUP	1823695-03DUP	Water	07/23/18 31
16				
17				

LDC# 43014E6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: (D)

Inorganics: Method See Cover

Analyte	Concentration		RPD	
	4	5		
Hexavalent Chromium	0.00070 U	0.011	176	
Perchlorate	2.2	2.5	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43014E6.wpd

NASA JPL, 3Q2018 - LDC# 43014

SDG: 1823695

Analytical Method											
EPA-200.8											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-3Q18	1823695-06	Total Recoverable Chromium	8/7/2018	1.5	Y	y	v j		3.0	0.50	ug/L
EB-6-073118	1823695-10	Total Recoverable Chromium	8/7/2018	3	Y	n	u		3.0	0.50	ug/L
MW-23-1	1823695-05	Total Recoverable Chromium	8/7/2018	1.3	Y	y	v j		3.0	0.50	ug/L
MW-23-2	1823695-04	Total Recoverable Chromium	8/7/2018	1.6	Y	y	v j		3.0	0.50	ug/L
MW-23-3	1823695-03	Total Recoverable Chromium	8/7/2018	3.6	Y	y	v		3.0	0.50	ug/L
MW-23-4	1823695-02	Total Recoverable Chromium	8/7/2018	3.4	Y	y	v		3.0	0.50	ug/L
MW-4-1	1823695-09	Total Recoverable Chromium	8/7/2018	3	Y	n	u		3.0	0.50	ug/L
MW-4-2	1823695-08	Total Recoverable Chromium	8/7/2018	1.5	Y	y	v j		3.0	0.50	ug/L
MW-4-3	1823695-07	Total Recoverable Chromium	8/7/2018	0.55	Y	y	v j		3.0	0.50	ug/L

Analytical Method											
EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-3Q18	1823695-06	Perchlorate	8/17/2018	2.5	Y	y	v j		4.0	0.58	ug/L
EB-6-073118	1823695-10	Perchlorate	8/17/2018	4	Y	n	u		4.0	0.58	ug/L
MW-23-1	1823695-05	Perchlorate	8/17/2018	2.2	Y	y	v j		4.0	0.58	ug/L
MW-23-2	1823695-04	Perchlorate	8/17/2018	3.6	Y	y	v j		4.0	0.58	ug/L
MW-23-3	1823695-03	Perchlorate	8/17/2018	2	Y	y	v j		4.0	0.58	ug/L
MW-4-1	1823695-09	Perchlorate	8/17/2018	2.1	Y	y	v j		4.0	0.58	ug/L
MW-4-2	1823695-08	Perchlorate	8/17/2018	4.7	Y	y	v		4.0	0.58	ug/L
MW-4-3	1823695-07	Perchlorate	8/17/2018	4	Y	n	u		4.0	0.58	ug/L

Analytical Method											
EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-3Q18	1823695-06	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L

SDG: 1823695

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-4-3Q18	1823695-06	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
Dup-4-3Q18	1823695-06	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
Dup-4-3Q18	1823695-06	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
Dup-4-3Q18	1823695-06	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-3Q18	1823695-06	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
Dup-4-3Q18	1823695-06	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
Dup-4-3Q18	1823695-06	Trichloroethene	8/3/2018	1.1	Y	y	v		0.50	0.19	ug/L
Dup-4-3Q18	1823695-06	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-4-3Q18	1823695-06	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-3Q18	1823695-06	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-3Q18	1823695-06	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
Dup-4-3Q18	1823695-06	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
Dup-4-3Q18	1823695-06	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
Dup-4-3Q18	1823695-06	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
Dup-4-3Q18	1823695-06	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
Dup-4-3Q18	1823695-06	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
Dup-4-3Q18	1823695-06	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
Dup-4-3Q18	1823695-06	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
Dup-4-3Q18	1823695-06	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
Dup-4-3Q18	1823695-06	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
Dup-4-3Q18	1823695-06	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
Dup-4-3Q18	1823695-06	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
Dup-4-3Q18	1823695-06	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823695

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-4-3Q18	1823695-06	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
Dup-4-3Q18	1823695-06	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
Dup-4-3Q18	1823695-06	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
Dup-4-3Q18	1823695-06	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-4-3Q18	1823695-06	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
Dup-4-3Q18	1823695-06	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-3Q18	1823695-06	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
Dup-4-3Q18	1823695-06	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
Dup-4-3Q18	1823695-06	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
Dup-4-3Q18	1823695-06	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
Dup-4-3Q18	1823695-06	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-4-3Q18	1823695-06	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
Dup-4-3Q18	1823695-06	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-3Q18	1823695-06	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-4-3Q18	1823695-06	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-4-3Q18	1823695-06	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
Dup-4-3Q18	1823695-06	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-4-3Q18	1823695-06	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
Dup-4-3Q18	1823695-06	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-4-3Q18	1823695-06	Chloroform	8/3/2018	0.37	Y	y	v j		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823695

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-4-3Q18	1823695-06	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-4-3Q18	1823695-06	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-4-3Q18	1823695-06	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
Dup-4-3Q18	1823695-06	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-4-3Q18	1823695-06	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-4-3Q18	1823695-06	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-4-3Q18	1823695-06	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
Dup-4-3Q18	1823695-06	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-4-3Q18	1823695-06	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-4-3Q18	1823695-06	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-4-3Q18	1823695-06	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-4-3Q18	1823695-06	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-4-3Q18	1823695-06	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-4-3Q18	1823695-06	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-4-3Q18	1823695-06	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-4-3Q18	1823695-06	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823695

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-4-3Q18	1823695-06	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-4-3Q18	1823695-06	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-4-3Q18	1823695-06	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-4-3Q18	1823695-06	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-4-3Q18	1823695-06	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-4-3Q18	1823695-06	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-4-3Q18	1823695-06	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-073118	1823695-10	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-073118	1823695-10	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-073118	1823695-10	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-073118	1823695-10	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-6-073118	1823695-10	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-073118	1823695-10	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
EB-6-073118	1823695-10	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-073118	1823695-10	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-6-073118	1823695-10	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-073118	1823695-10	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-073118	1823695-10	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-073118	1823695-10	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823695

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-6-073118	1823695-10	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-073118	1823695-10	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-073118	1823695-10	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-073118	1823695-10	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
EB-6-073118	1823695-10	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-073118	1823695-10	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
EB-6-073118	1823695-10	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-073118	1823695-10	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-073118	1823695-10	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-6-073118	1823695-10	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
EB-6-073118	1823695-10	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
EB-6-073118	1823695-10	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-6-073118	1823695-10	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
EB-6-073118	1823695-10	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
EB-6-073118	1823695-10	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
EB-6-073118	1823695-10	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
EB-6-073118	1823695-10	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-073118	1823695-10	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
EB-6-073118	1823695-10	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-073118	1823695-10	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-6-073118	1823695-10	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-6-073118	1823695-10	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-6-073118	1823695-10	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
EB-6-073118	1823695-10	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L

SDG: 1823695

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-6-073118	1823695-10	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
EB-6-073118	1823695-10	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-073118	1823695-10	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-6-073118	1823695-10	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-6-073118	1823695-10	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-073118	1823695-10	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-073118	1823695-10	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-073118	1823695-10	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-073118	1823695-10	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-073118	1823695-10	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-073118	1823695-10	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-6-073118	1823695-10	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-6-073118	1823695-10	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-073118	1823695-10	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-073118	1823695-10	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
EB-6-073118	1823695-10	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
EB-6-073118	1823695-10	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
EB-6-073118	1823695-10	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
EB-6-073118	1823695-10	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
EB-6-073118	1823695-10	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823695

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-6-073118	1823695-10	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-073118	1823695-10	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-073118	1823695-10	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-073118	1823695-10	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-073118	1823695-10	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-073118	1823695-10	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-073118	1823695-10	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-6-073118	1823695-10	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-073118	1823695-10	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-073118	1823695-10	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-073118	1823695-10	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-073118	1823695-10	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-073118	1823695-10	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-073118	1823695-10	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-073118	1823695-10	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-073118	1823695-10	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1823695-05	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-23-1	1823695-05	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-1	1823695-05	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823695

Analytical 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	1823695-05	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1823695-05	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1823695-05	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1823695-05	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1823695-05	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1823695-05	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1823695-05	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1823695-05	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1823695-05	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1823695-05	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-23-1	1823695-05	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-1	1823695-05	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1823695-05	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1823695

Analytical 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	1823695-05	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1823695-05	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-1	1823695-05	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1823695-05	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1823695-05	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1823695-05	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	Chloroform	8/3/2018	0.38	Y	y	v j		0.50	0.14	ug/L
MW-23-1	1823695-05	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1823695-05	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-1	1823695-05	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1823695-05	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-1	1823695-05	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1823695-05	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1823695-05	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-1	1823695-05	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-1	1823695-05	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-1	1823695-05	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-1	1823695-05	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-1	1823695-05	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1823695-05	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-1	1823695-05	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L

SDG: 1823695

Analytical 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	1823695-05	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-23-1	1823695-05	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-23-1	1823695-05	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1823695-05	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-1	1823695-05	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-23-1	1823695-05	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-23-1	1823695-05	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-1	1823695-05	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1823695-05	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-23-1	1823695-05	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-23-1	1823695-05	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-23-1	1823695-05	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-23-1	1823695-05	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1823695-05	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1823695-05	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1823695-05	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1823695-05	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1823695-05	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1823695-05	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-1	1823695-05	Trichloroethene	8/3/2018	1.3	Y	y	v		0.50	0.19	ug/L
MW-23-1	1823695-05	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-23-1	1823695-05	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L

SDG: 1823695

Analytical 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	1823695-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1823695-05	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1823695-05	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1823695-05	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1823695-05	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-23-1	1823695-05	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-1	1823695-05	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-1	1823695-05	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1823695-05	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-23-2	1823695-04	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1823695-04	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-2	1823695-04	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-2	1823695-04	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-23-2	1823695-04	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1823695-04	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1823695-04	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-2	1823695-04	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-23-2	1823695-04	Trichloroethene	8/3/2018	0.83	Y	y	v		0.50	0.19	ug/L
MW-23-2	1823695-04	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1823695-04	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1823695-04	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823695

Analytical 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	1823695-04	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1823695-04	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	Tetrachloroethene	8/3/2018	0.26	Y	y	v j		0.50	0.23	ug/L
MW-23-2	1823695-04	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-2	1823695-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1823695-04	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-23-2	1823695-04	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-23-2	1823695-04	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-2	1823695-04	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1823695-04	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-2	1823695-04	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-23-2	1823695-04	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-2	1823695-04	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-2	1823695-04	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-23-2	1823695-04	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-23-2	1823695-04	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-23-2	1823695-04	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-2	1823695-04	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1823695-04	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-2	1823695-04	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L

SDG: 1823695

Analytical 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	1823695-04	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1823695-04	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-2	1823695-04	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1823695-04	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-2	1823695-04	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1823695-04	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-2	1823695-04	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1823695-04	Chloroform	8/3/2018	0.36	Y	y	v j		0.50	0.14	ug/L
MW-23-2	1823695-04	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1823695-04	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1823695-04	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1823695-04	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1823695-04	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-2	1823695-04	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1823695-04	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1823695-04	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1823695-04	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-2	1823695-04	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823695

Analytical 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	1823695-04	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1823695-04	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1823695-04	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1823695-04	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1823695-04	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-2	1823695-04	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1823695-04	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-23-2	1823695-04	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1823695-04	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1823695-04	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1823695-04	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1823695-04	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1823695-04	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1823695-03	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1823695-03	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823695

Analytical 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	1823695-03	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1823695-03	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1823695-03	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1823695-03	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1823695-03	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1823695-03	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1823695-03	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1823695-03	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1823695-03	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1823695-03	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1823695-03	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-3	1823695-03	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1823695-03	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1823695-03	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L

SDG: 1823695

Analytical 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	1823695-03	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1823695-03	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1823695-03	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-23-3	1823695-03	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1823695-03	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-23-3	1823695-03	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-23-3	1823695-03	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1823695-03	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1823695-03	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1823695-03	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1823695-03	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1823695-03	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-23-3	1823695-03	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1823695-03	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-23-3	1823695-03	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-23-3	1823695-03	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-23-3	1823695-03	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-23-3	1823695-03	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-23-3	1823695-03	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-23-3	1823695-03	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-23-3	1823695-03	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1823695

Analytical 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	1823695-03	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-3	1823695-03	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-23-3	1823695-03	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1823695-03	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-23-3	1823695-03	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-23-3	1823695-03	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1823695-03	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-23-3	1823695-03	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1823695-03	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-23-3	1823695-03	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-23-3	1823695-03	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1823695-03	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1823695-03	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-23-3	1823695-03	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1823695-03	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1823695-03	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1823695-03	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-23-3	1823695-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1823695-03	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1823695-03	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-23-3	1823695-03	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1823695-03	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L

SDG: 1823695

Analytical 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	1823695-03	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-23-3	1823695-03	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-23-3	1823695-03	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-23-3	1823695-03	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1823695-03	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-23-3	1823695-03	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-23-3	1823695-03	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-23-3	1823695-03	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1823695-09	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1823695-09	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1823695-09	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1823695-09	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1823695-09	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1823695-09	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1823695-09	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1823695-09	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1823695-09	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1823695-09	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1823695-09	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1823695-09	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-4-1	1823695-09	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823695

Analytical 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	1823695-09	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1823695-09	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-4-1	1823695-09	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-1	1823695-09	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1823695-09	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-4-1	1823695-09	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-4-1	1823695-09	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-1	1823695-09	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-4-1	1823695-09	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-4-1	1823695-09	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1823695-09	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-1	1823695-09	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-4-1	1823695-09	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-1	1823695-09	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-1	1823695-09	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-1	1823695-09	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-4-1	1823695-09	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1823695-09	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-1	1823695-09	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-1	1823695-09	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L

SDG: 1823695

Analytical 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	1823695-09	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1823695-09	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1823695-09	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-1	1823695-09	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-4-1	1823695-09	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1823695-09	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1823695-09	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-1	1823695-09	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-1	1823695-09	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1823695-09	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-4-1	1823695-09	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-4-1	1823695-09	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-4-1	1823695-09	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1823695-09	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-1	1823695-09	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-1	1823695-09	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1823695-09	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1823695-09	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1823695

Analytical 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	1823695-09	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-1	1823695-09	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1823695-09	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-4-1	1823695-09	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1823695-09	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1823695-09	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1823695-09	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-1	1823695-09	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1823695-09	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1823695-09	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-1	1823695-09	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1823695-09	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1823695-09	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1823695-09	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1823695-09	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1823695-09	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1823695-08	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1823695-08	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1823695-08	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1823695-08	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823695

Analytical 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	1823695-08	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1823695-08	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1823695-08	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1823695-08	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1823695-08	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1823695-08	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1823695-08	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1823695-08	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-4-2	1823695-08	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1823695-08	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1823695-08	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-2	1823695-08	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1823695-08	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823695

Analytical 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	1823695-08	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-2	1823695-08	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1823695-08	Chloroform	8/3/2018	0.35	Y	y	v j		0.50	0.14	ug/L
MW-4-2	1823695-08	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1823695-08	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-2	1823695-08	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1823695-08	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-2	1823695-08	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1823695-08	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1823695-08	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1823695-08	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-4-2	1823695-08	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-2	1823695-08	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1823695-08	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-4-2	1823695-08	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-4-2	1823695-08	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-4-2	1823695-08	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-2	1823695-08	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-4-2	1823695-08	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-2	1823695-08	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-2	1823695-08	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L

SDG: 1823695

Analytical 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	1823695-08	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-4-2	1823695-08	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-2	1823695-08	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1823695-08	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-4-2	1823695-08	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-4-2	1823695-08	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-4-2	1823695-08	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-4-2	1823695-08	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-4-2	1823695-08	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-4-2	1823695-08	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-2	1823695-08	Trichloroethene	8/3/2018	0.99	Y	y	v		0.50	0.19	ug/L
MW-4-2	1823695-08	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1823695-08	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1823695-08	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1823695-08	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1823695-08	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1823695-08	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1823695-08	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-2	1823695-08	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1823695-08	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1823695-08	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1823695-08	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-2	1823695-08	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823695

Analytical 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	1823695-08	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1823695-08	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1823695-08	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-2	1823695-08	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-2	1823695-08	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1823695-08	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-4-2	1823695-08	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1823695-07	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1823695-07	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-4-3	1823695-07	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-3	1823695-07	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1823695-07	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1823695-07	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1823695-07	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1823695-07	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1823695-07	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1823695-07	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1823695-07	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-3	1823695-07	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1823695-07	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823695

Analytical 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	1823695-07	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-3	1823695-07	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1823695-07	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1823695-07	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1823695-07	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1823695-07	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-3	1823695-07	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-4-3	1823695-07	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-4-3	1823695-07	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1823695-07	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-4-3	1823695-07	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1823695-07	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-4-3	1823695-07	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1823695-07	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-4-3	1823695-07	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1823695-07	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-4-3	1823695-07	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1823695-07	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1823695-07	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1823695-07	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823695

Analytical 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	1823695-07	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1823695-07	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1823695-07	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-4-3	1823695-07	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1823695-07	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-4-3	1823695-07	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1823695-07	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-4-3	1823695-07	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-4-3	1823695-07	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-4-3	1823695-07	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-3	1823695-07	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-4-3	1823695-07	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-3	1823695-07	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1823695-07	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-4-3	1823695-07	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-4-3	1823695-07	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-4-3	1823695-07	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-4-3	1823695-07	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-3	1823695-07	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-4-3	1823695-07	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-4-3	1823695-07	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-4-3	1823695-07	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823695

Analytical 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	1823695-07	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1823695-07	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1823695-07	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1823695-07	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-4-3	1823695-07	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1823695-07	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1823695-07	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1823695-07	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1823695-07	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1823695-07	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1823695-07	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-4-3	1823695-07	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1823695-07	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1823695-07	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1823695-07	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-4-3	1823695-07	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1823695-07	Trichloroethene	8/3/2018	0.55	Y	y	v		0.50	0.19	ug/L
TB-6-073118	1823695-01	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-073118	1823695-01	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-073118	1823695-01	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-073118	1823695-01	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823695

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-6-073118	1823695-01	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-073118	1823695-01	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-073118	1823695-01	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-073118	1823695-01	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-073118	1823695-01	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-073118	1823695-01	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-073118	1823695-01	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-073118	1823695-01	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-073118	1823695-01	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-073118	1823695-01	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-073118	1823695-01	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-073118	1823695-01	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-073118	1823695-01	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-6-073118	1823695-01	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-6-073118	1823695-01	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L

SDG: 1823695

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-6-073118	1823695-01	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-073118	1823695-01	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-073118	1823695-01	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-6-073118	1823695-01	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-073118	1823695-01	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
TB-6-073118	1823695-01	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-073118	1823695-01	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-073118	1823695-01	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-073118	1823695-01	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-073118	1823695-01	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
TB-6-073118	1823695-01	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
TB-6-073118	1823695-01	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-073118	1823695-01	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
TB-6-073118	1823695-01	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
TB-6-073118	1823695-01	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
TB-6-073118	1823695-01	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
TB-6-073118	1823695-01	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
TB-6-073118	1823695-01	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1823695

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-6-073118	1823695-01	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-073118	1823695-01	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
TB-6-073118	1823695-01	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
TB-6-073118	1823695-01	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
TB-6-073118	1823695-01	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
TB-6-073118	1823695-01	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
TB-6-073118	1823695-01	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
TB-6-073118	1823695-01	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-073118	1823695-01	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-6-073118	1823695-01	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
TB-6-073118	1823695-01	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-6-073118	1823695-01	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-073118	1823695-01	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-073118	1823695-01	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-073118	1823695-01	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-073118	1823695-01	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-073118	1823695-01	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-073118	1823695-01	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
TB-6-073118	1823695-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-073118	1823695-01	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
TB-6-073118	1823695-01	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-073118	1823695-01	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-073118	1823695-01	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
TB-6-073118	1823695-01	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L

SDG: 1823695

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-6-073118	1823695-01	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
TB-6-073118	1823695-01	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-073118	1823695-01	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
TB-6-073118	1823695-01	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
TB-6-073118	1823695-01	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
TB-6-073118	1823695-01	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-4-3Q18	1823695-06	Hexavalent Chromium	7/31/2018	0.0011	Y	y	v j		0.0020	0.0007	mg/L
EB-6-073118	1823695-10	Hexavalent Chromium	7/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-23-1	1823695-05	Hexavalent Chromium	7/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-23-2	1823695-04	Hexavalent Chromium	7/31/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-23-3	1823695-03	Hexavalent Chromium	7/31/2018	0.0033	Y	y	v		0.0020	0.0007	mg/L
MW-23-4	1823695-02	Hexavalent Chromium	7/31/2018	0.0031	Y	y	v		0.0020	0.0007	mg/L
MW-4-1	1823695-09	Hexavalent Chromium	7/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-2	1823695-08	Hexavalent Chromium	7/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-4-3	1823695-07	Hexavalent Chromium	7/31/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

LDC #: 43014

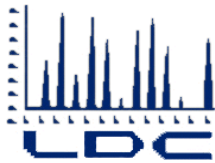
EDD POPULATION COMPLETENESS WORKSHEET

Date: 7/17/18
 Page: 1 of 1
 2nd Reviewer: [Signature]

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>100%</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/A	
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/A	
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

September 26, 2018

SUBJECT: NASA JPL, 3Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on September 4, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #43050:

<u>SDG #</u>	<u>Fraction</u>
1823821	Volatiles, Chromium, Wet Chemistry

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

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

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

Sincerely,

Pei Geng
Project Manager/Senior Chemist

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 21, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823821

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-7-080118	1823821-01	Water	08/01/18
MW-11-4	1823821-02	Water	08/01/18
MW-11-3	1823821-03	Water	08/01/18
MW-11-2**	1823821-04**	Water	08/01/18
MW-11-1	1823821-05	Water	08/01/18
MW-12-5	1823821-06	Water	08/01/18
MW-12-4	1823821-07	Water	08/01/18
MW-12-3**	1823821-08**	Water	08/01/18
MW-12-2	1823821-09	Water	08/01/18
EB-7-080118	1823821-10	Water	08/01/18
MW-11-2MS	1823821-04MS	Water	08/01/18
MW-11-2MSD	1823821-04MSD	Water	08/01/18
MW-12-3MS	1823821-08MS	Water	08/01/18
MW-12-3MSD	1823821-08MSD	Water	08/01/18

**Indicates sample underwent Level IV review

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

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

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

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	All samples in SDG 1823821	UJ (all non-detects)	P

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
08/03/18	Bromomethane Methyl iodide	51.0 56.3	All samples in SDG 1823821	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-7-080118 was identified as a trip blank. No contaminants were found.

Sample EB-7-080118 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

Due to ICV %D and 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, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823821

Sample	Compound	Flag	A or P	Reason
TB-7-080118 MW-11-4 MW-11-3 MW-11-2** MW-11-1 MW-12-5 MW-12-4 MW-12-3** MW-12-2 EB-7-080118	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
TB-7-080118 MW-11-4 MW-11-3 MW-11-2** MW-11-1 MW-12-5 MW-12-4 MW-12-3** MW-12-2 EB-7-080118	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823821

No Sample Data Qualified in this SDG

LDC #: 43050A1

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1823821

Level III / IV

Laboratory: BC Laboratories, Inc.

Date: 9/21/18

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, M	RS D ≤ 20%. Y ² 1CV ≤ 30%
IV.	Continuing calibration	M	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=10
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	
XIII.	Target compound identification	A	
XIV.	System performance	A	
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-7-080118	1823821-01	Water	08/01/18
2	MW-11-4	1823821-02	Water	08/01/18
3	MW-11-3	1823821-03	Water	08/01/18
4	MW-11-2 **	1823821-04 **	Water	08/01/18
5	MW-11-1	1823821-05	Water	08/01/18
6	MW-12-5	1823821-06	Water	08/01/18
7	MW-12-4	1823821-07	Water	08/01/18
8	MW-12-3 **	1823821-08 **	Water	08/01/18
9	MW-12-2	1823821-09	Water	08/01/18
10	EB-7-080118	1823821-10	Water	08/01/18
11	MW-11-2MS	1823821-04MS	Water	08/01/18
12	MW-11-2MSD	1823821-04MSD	Water	08/01/18
13	MW-12-3MS	1823821-08MS	Water	08/01/18

LDC #: 43050A1

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1823821

Level III

Laboratory: BC Laboratories, Inc.

Date: 9/2/18

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-12-3MSD	1823821-08MSD	Water	08/01/18
15				
16				

Notes:

Method: Volatiles (EPA Method 524.2)

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

LDC # A3050A

VALIDATION FINDINGS CHECKLIST

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

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$
 average RRF = sum of the RRFs/number of standards
 %RSD = $100 * (S/X)$

A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs
 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)	7/6/18	V (1st internal standard)	1.83743	1.83743	1.817852	1.817852	5.837117	5.837
			CC (2nd internal standard)	0.8743117	0.8743116	0.841781	0.841781	7.616755	7.617
			EE (3rd internal standard)	2.010099	2.010099	1.949139	1.949139	6.312443	6.312
			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	03AUG26	8/3/18	V (1st internal standard)	1.817852	1.817852	1.817852	1.9	1.9
			CC (2nd internal standard)	0.841781	0.7865998	0.7865998	6.6	6.6
			EE (3rd internal standard)	1.949139	1.927416	1.927416	1.1	1.1
			HHH (4th internal standard)					
2			V (1st internal standard)					
			CC (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 #: 43050A1

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: [Signature]
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: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.000	9.96	99.6	99.6	0
Bromofluorobenzene	✓	9.20	92.0	92.0	
1,2-Dichlorobenzene-d4 <u>1,2-DCE</u>	✓	9.48	94.8	94.8	✓
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: 11/12

Compound	Spike Added (µg/L)		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	NB	25.070	24.340	100	100	97.4	97.4	2.95	2.95
Trichloroethene	↓	↓	↓	24.760	22.980	97.0	97.0	91.9	91.9	5.42	5.42
Benzene	↓	↓	↓	25.080	24.170	100	100	99.1	99.1	1.24	1.24
Toluene	↓	↓	↓	22.970	21.600	91.9	91.9	86.4	86.4	6.15	6.15
Chlorobenzene	↓	↓	↓	26.170	26.080	107	107	104	104	2.61	2.61

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 #: ~~13050A~~

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B020602-BS1

Compound	Spike Added		Spiked Sample Concentration		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	25.00	NA	25.090	NA	100	100				
Trichloroethene			27.60		109	109				
Benzene			25.530		102	102				
Toluene			24.940		99.8	99.8				
Chlorobenzene			26.800		107	107				

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, 3Q2018

LDC Report Date: September 24, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823821

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-11-3	1823821-03	Water	08/01/18
MW-11-2**	1823821-04**	Water	08/01/18
MW-11-1	1823821-05	Water	08/01/18
MW-12-3**	1823821-08**	Water	08/01/18
MW-12-2	1823821-09	Water	08/01/18
EB-7-080118	1823821-10	Water	08/01/18
MW-11-2MS	1823821-04MS	Water	08/01/18
MW-11-2MSD	1823821-04MSD	Water	08/01/18
MW-11-2DUP	1823821-04DUP	Water	08/01/18
MW-12-3MS	1823821-08MS	Water	08/01/18
MW-12-3MSD	1823821-08MSD	Water	08/01/18
MW-12-3DUP	1823821-08DUP	Water	08/01/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.753 ug/L	MW-11-3 MW-11-2** MW-11-1 MW-12-2
PB (prep blank)	Chromium	0.723 ug/L	MW-12-3** EB-7-080118

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-11-3	Chromium	2.4 ug/L	2.4U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-11-2**	Chromium	0.62 ug/L	0.62U ug/L
MW-11-1	Chromium	0.90 ug/L	0.90U ug/L
MW-12-2	Chromium	1.6 ug/L	1.6U ug/L
MW-12-3**	Chromium	1.2 ug/L	1.2U ug/L
EB-7-080118	Chromium	0.68 ug/L	0.68U ug/L

VI. Field Blanks

Sample EB-7-080118 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-7-080118	Chromium	0.68

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2018
Chromium - Data Qualification Summary - SDG 1823821

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823821

Sample	Analyte	Modified Final Concentration	A or P
MW-11-3	Chromium	2.4U ug/L	A
MW-11-2**	Chromium	0.62U ug/L	A
MW-11-1	Chromium	0.90U ug/L	A
MW-12-2	Chromium	1.6U ug/L	A
MW-12-3**	Chromium	1.2U ug/L	A
EB-7-080118	Chromium	0.68U ug/L	A

LDC #: 43050A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/18/18

SDG #: 1823821

Level III /IV‡

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *AK*2nd Reviewer: *AK*

METHOD: Metals (EPA Method 200.8)

CR

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = 6
VII.	Matrix Spike/Matrix Spike Duplicates	A	(7,8), (10,11)
VIII.	Duplicate sample analysis	A	9, 12
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A N	reviewed for level IV only
XIII.	Sample Result Verification	A 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-11-3	1823821-03	Water	08/01/18
2	MW-11-2 **	1823821-04 **	Water	08/01/18
3	MW-11-1	1823821-05	Water	08/01/18
4	MW-12-3 **	1823821-08 **	Water	08/01/18
5	MW-12-2	1823821-09	Water	08/01/18
6	EB-7-080118	1823821-10	Water	08/01/18
7	MW-11-2MS	1823821-04MS	Water	08/01/18
8	MW-11-2MSD	1823821-04MSD	Water	08/01/18
9	MW-11-2DUP	1823821-04DUP	Water	08/01/18
10	MW-12-3MS	1823821-08MS	Water	08/01/18
11	MW-12-3MSD	1823821-08MSD	Water	08/01/18
12	MW-12-3DUP	1823821-08DUP	Water	08/01/18
13				

Notes: _____

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

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

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

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 1,2,3,5,

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	3	5					
Cr		0.753		3.765	2.4	0.62	0.90	1.6					

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 4,6

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	4	6							
Cr		0.723		3.615	1.2	0.68							

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 #: 430SD A4A

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 8/6 @ 07:48	Cr	53.052	50.000	106	106	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV/G	ICP/MS (Continuing calibration) 8/7 @ 20:05	Cr	40.687	40.000	102	102	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis 8/6	58.933	58.925	± 0.1 AMU	NA	Y
	%RSD 8/7	114.9	366958.6	≤ 5% RSD	1.0	Y

Comments:

LDC #: 4305DA4a

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	%R / RPD / %D	%R / RPD / %D	
	ICP interference check								
LCS	Laboratory control sample 8/7 c 21:11	CR	41.577	40.000	104	104	104	104	Y
7	Matrix spike 8/6 c 13:34	CR	(SSR-SR) 38.511	40.000	96.3	96.3	96.3	96.3	Y
718	Duplicate 8/6 c 13:38	CR	39.591	39.131	1.17	1.17	1.17	1.17	Y
4	Post digestion spike 8/7 c 19:32	CR	38.649	40.000	96.6	96.6	96.7	96.7	Y
	ICP serial dilution								

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018
LDC Report Date: September 24, 2018
Parameters: Wet Chemistry
Validation Level: Level III & IV
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1823821

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-11-4	1823821-02	Water	08/01/18
MW-11-3	1823821-03	Water	08/01/18
MW-11-2**	1823821-04**	Water	08/01/18
MW-11-1	1823821-05	Water	08/01/18
MW-12-5	1823821-06	Water	08/01/18
MW-12-4	1823821-07	Water	08/01/18
MW-12-3**	1823821-08**	Water	08/01/18
MW-12-2	1823821-09	Water	08/01/18
EB-7-080118	1823821-10	Water	08/01/18
MW-11-2MS	1823821-04MS	Water	08/01/18
MW-11-2MSD	1823821-04MSD	Water	08/01/18
MW-11-2DUP	1823821-04DUP	Water	08/01/18
MW-12-3MS	1823821-08MS	Water	08/01/18
MW-12-3MSD	1823821-08MSD	Water	08/01/18
MW-12-3DUP	1823821-08DUP	Water	08/01/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Perchlorate by EPA Method 314.0

Chloride, Sulfate, and Nitrate as Nitrogen by EPA Method 300.0

Nitrite as Nitrogen by EPA Method 353.2

Ortho-Phosphate as Phosphorous by EPA Method 365.1

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.

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
PB (prep blank)	Nitrite as N	0.010942 mg/L	MW-11-1
ICB/CCB	Nitrite as N	0.010675 mg/L	MW-11-1

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-11-1	Nitrite as N	0.011 mg/L	0.011U mg/L

V. Field Blanks

Sample EB-7-080118 was identified as an equipment blank. No contaminant concentrations were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-12-3MS/MSD (MW-12-3** MW-12-2 EB-7-080118)	Perchlorate	69.6 (80-120)	71.8 (80-120)	J (all detects) UJ (all non-detects)	A

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 MS/MSD %R, data were qualified as estimated in three samples.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

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, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823821

Sample	Analyte	Flag	A or P	Reason
MW-12-3** MW-12-2 EB-7-080118	Perchlorate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823821

Sample	Analyte	Modified Final Concentration	A or P
MW-11-1	Nitrite as N	0.011U mg/L	A

LDC #: 43050A6
 SDG #: 1823821
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 9/18/18
 Page: 1 of 1
 Reviewer: *ATC*
 2nd Reviewer: *[Signature]*

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), Chloride, Sulfate, Nitrate as N (EPA Method 300.0), Nitrate as N (EPA Method 353.2), ortho-Phosphate as P (PEA method 365.1)

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/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	SW	
V	Field blanks	ND	EB=9
VI.	Matrix Spike/Matrix Spike Duplicates	SW	(10,11), (13,14)
VII.	Duplicate sample analysis	A	12,15
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A*	reviewed for level IV only
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-11-4	1823821-02	Water	08/01/18
2	MW-11-3	1823821-03	Water	08/01/18
3	MW-11-2**	1823821-04**	Water	08/01/18
4	MW-11-1	1823821-05	Water	08/01/18
5	MW-12-5	1823821-06	Water	08/01/18
6	MW-12-4	1823821-07	Water	08/01/18
7	MW-12-3**	1823821-08**	Water	08/01/18
8	MW-12-2	1823821-09	Water	08/01/18
9	EB-7-080118	1823821-10	Water	08/01/18
10	MW-11-2MS	1823821-04MS	Water	08/01/18
11	MW-11-2MSD	1823821-04MSD	Water	08/01/18
12	MW-11-2DUP	1823821-04DUP	Water	08/01/18
13	MW-12-3MS	1823821-08MS	Water	08/01/18
14	MW-12-3MSD	1823821-08MSD	Water	08/01/18
15	MW-12-3DUP	1823821-08DUP	Water	08/01/18
16				
17				

Method: Inorganics (EPA Method *see cover*)

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

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET

Blanks

Reviewer: ATL
 2nd Reviewer: [Signature]

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 4

Analyte	Blank ID	Blank ID	Blank Action Limit														
	PB	ICB/CCB (mg/L)		4													
NO2-N	0.010942		0.05471	0.011													
NO2-N		0.010675	0.053375	see above													

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".

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

METHOD: Inorganics, EPA Method See cover

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

- Y N N/A Was a matrix spike analyzed for each matrix in this SDG? *lab limits*
- 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 water samples and \leq 35% for soil 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
	13/14	W	CIO4	69.6 (80-120)	71.8 (80-120)		7,8,9	J/UJ/A (detect/non-detect)

Comments: _____

LDC #: 43050AG

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

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄⁻ was recalculated. Calibration date: 08/14/18

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

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

Where,

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

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	ClO ₄ ⁻	s1	2	0.0022	0.9966	0.9969	Y
		s2	4	0.0043			
		s3	6	0.0066			
		s4	10	0.0121			
		s5	20	0.0222			
CCV ₈ (8/20 @ 10:32) Calibration verification	ClO ₄ ⁻	FOUND 8.868	TRUE 10.000		88.7	90.3	Y
CCV ₂ (8/11 @ 20:51) Calibration verification	Cr ⁶⁺	0.0515	0.05000		103	103	Y
CCV ₃ (8/2 @ 09:45) Calibration verification	Cr ⁶⁺	0.0515	0.05000		103	102	Y

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

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 B020640-BS1	Laboratory control sample	Cr6+	0.0515 mg/L	0.0500 mg/L	103	103	Y
13	Matrix spike sample 8/19 c 18:39	ClO4 ⁻	(SSR-SR) 7.068 mg/L	10.101 mg/L	70	69.6	Y
13/14	Duplicate sample 8/19 c 18:54	ClO4 ⁻	8.868 mg/L	8.8792 mg/L	0.126	2.46	Y

Comments: _____

LDC# 43050 - NASA JPL, 3Q2018

SDG: 1823821

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-080118	1823821-10	Total Recoverable Chromium	8/7/2018	0.68	Y	y	v j	U	3.0	0.50	ug/L
MW-11-1	1823821-05	Total Recoverable Chromium	8/6/2018	0.9	Y	y	v j	U	3.0	0.50	ug/L
MW-11-2	1823821-04	Total Recoverable Chromium	8/6/2018	0.62	Y	y	v j	U	3.0	0.50	ug/L
MW-11-3	1823821-03	Total Recoverable Chromium	8/6/2018	2.4	Y	y	v j	U	3.0	0.50	ug/L
MW-12-2	1823821-09	Total Recoverable Chromium	8/6/2018	1.6	Y	y	v j	U	3.0	0.50	ug/L
MW-12-3	1823821-08	Total Recoverable Chromium	8/7/2018	1.2	Y	y	v j	U	3.0	0.50	ug/L

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1823821-05	Chloride	8/2/2018	36	Y	y	v		0.50	0.077	mg/L
MW-11-1	1823821-05	Nitrate as N	8/2/2018	1.7	Y	y	v		0.10	0.021	mg/L
MW-11-1	1823821-05	Sulfate	8/2/2018	47	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
EB-7-080118	1823821-10	Perchlorate	8/19/2018	4	Y	n	u	UJ	4.0	0.58	ug/L
MW-11-1	1823821-05	Perchlorate	8/20/2018	1.3	Y	y	v j		4.0	0.58	ug/L
MW-11-2	1823821-04	Perchlorate	8/20/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-3	1823821-03	Perchlorate	8/20/2018	4	Y	n	u		4.0	0.58	ug/L
MW-11-4	1823821-02	Perchlorate	8/20/2018	4	Y	n	u		4.0	0.58	ug/L
MW-12-2	1823821-09	Perchlorate	8/19/2018	1.8	Y	y	v j	J	4.0	0.58	ug/L
MW-12-3	1823821-08	Perchlorate	8/20/2018	1.8	Y	y	v j	J	4.0	0.58	ug/L
MW-12-4	1823821-07	Perchlorate	8/20/2018	1.5	Y	y	v j		4.0	0.58	ug/L
MW-12-5	1823821-06	Perchlorate	8/20/2018	1.2	Y	y	v j		4.0	0.58	ug/L

SDG: 1823821

Analytical Method		EPA-353.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1823821-05	Nitrite as N	8/2/2018	0.011	Y	y	v j	U	0.050	0.010	mg/L

Analytical Method		EPA-365.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1823821-05	ortho-Phosphate as P	8/2/2018	0.018	Y	y	v j		0.050	0.017	mg/L

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-080118	1823821-10	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-080118	1823821-10	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-080118	1823821-10	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-080118	1823821-10	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-080118	1823821-10	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-080118	1823821-10	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-080118	1823821-10	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-080118	1823821-10	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-080118	1823821-10	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-080118	1823821-10	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-080118	1823821-10	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823821

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-7-080118	1823821-10	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-7-080118	1823821-10	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-7-080118	1823821-10	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-7-080118	1823821-10	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-080118	1823821-10	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-080118	1823821-10	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-7-080118	1823821-10	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-080118	1823821-10	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-080118	1823821-10	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-080118	1823821-10	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-080118	1823821-10	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-7-080118	1823821-10	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-080118	1823821-10	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
EB-7-080118	1823821-10	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-7-080118	1823821-10	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-080118	1823821-10	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
EB-7-080118	1823821-10	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
EB-7-080118	1823821-10	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
EB-7-080118	1823821-10	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L

SDG: 1823821

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-7-080118	1823821-10	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-7-080118	1823821-10	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-080118	1823821-10	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
EB-7-080118	1823821-10	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
EB-7-080118	1823821-10	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
EB-7-080118	1823821-10	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
EB-7-080118	1823821-10	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-7-080118	1823821-10	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-7-080118	1823821-10	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
EB-7-080118	1823821-10	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
EB-7-080118	1823821-10	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-7-080118	1823821-10	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-080118	1823821-10	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
EB-7-080118	1823821-10	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
EB-7-080118	1823821-10	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
EB-7-080118	1823821-10	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
EB-7-080118	1823821-10	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
EB-7-080118	1823821-10	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
EB-7-080118	1823821-10	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
EB-7-080118	1823821-10	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-080118	1823821-10	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-080118	1823821-10	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823821

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-7-080118	1823821-10	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-080118	1823821-10	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-7-080118	1823821-10	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-080118	1823821-10	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-080118	1823821-10	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-080118	1823821-10	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-080118	1823821-10	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-080118	1823821-10	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-7-080118	1823821-10	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-080118	1823821-10	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-080118	1823821-10	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-080118	1823821-10	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-080118	1823821-10	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-080118	1823821-10	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-080118	1823821-10	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1823821-05	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1823821-05	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-1	1823821-05	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1823821-05	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1823821-05	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823821

Analytical 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	1823821-05	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
MW-11-1	1823821-05	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-11-1	1823821-05	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L	
MW-11-1	1823821-05	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-11-1	1823821-05	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-11-1	1823821-05	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L	
MW-11-1	1823821-05	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-11-1	1823821-05	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L	
MW-11-1	1823821-05	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L	
MW-11-1	1823821-05	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L	
MW-11-1	1823821-05	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L	
MW-11-1	1823821-05	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L	
MW-11-1	1823821-05	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L	
MW-11-1	1823821-05	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L	
MW-11-1	1823821-05	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L	
MW-11-1	1823821-05	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L	
MW-11-1	1823821-05	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L	
MW-11-1	1823821-05	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L	
MW-11-1	1823821-05	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L	
MW-11-1	1823821-05	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L	
MW-11-1	1823821-05	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L	
MW-11-1	1823821-05	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L	
MW-11-1	1823821-05	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L	
MW-11-1	1823821-05	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L	
MW-11-1	1823821-05	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L	

SDG: 1823821

Analytical 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	1823821-05	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-1	1823821-05	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-1	1823821-05	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-11-1	1823821-05	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-1	1823821-05	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-1	1823821-05	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-1	1823821-05	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-1	1823821-05	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1823821-05	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-1	1823821-05	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-11-1	1823821-05	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1823821-05	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1823821-05	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1823821-05	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1823821-05	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1823821-05	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1823821-05	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-1	1823821-05	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1823821-05	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1823821-05	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-1	1823821-05	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1823821-05	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-11-1	1823821-05	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L

SDG: 1823821

Analytical 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	1823821-05	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-11-1	1823821-05	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-11-1	1823821-05	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-11-1	1823821-05	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-1	1823821-05	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-1	1823821-05	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-1	1823821-05	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1823821-05	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1823821-05	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1823821-05	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1823821-05	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1823821-05	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1823821-05	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1823821-05	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1823821-05	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1823821-05	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1823821-05	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1823821-05	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1823821-05	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1823821-05	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1823821-05	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823821

Analytical 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	1823821-05	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1823821-05	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1823821-05	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-1	1823821-05	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1823821-05	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1823821-05	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1823821-04	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1823821-04	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-2	1823821-04	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-2	1823821-04	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-2	1823821-04	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1823821-04	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-2	1823821-04	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1823821-04	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1823821-04	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-2	1823821-04	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1823821-04	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1823821-04	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1823821-04	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1823821-04	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L

SDG: 1823821

Analytical 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	1823821-04	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1823821-04	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-2	1823821-04	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-11-2	1823821-04	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-11-2	1823821-04	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-11-2	1823821-04	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-11-2	1823821-04	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-11-2	1823821-04	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1823821-04	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-2	1823821-04	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-2	1823821-04	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1823821-04	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-2	1823821-04	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-2	1823821-04	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-2	1823821-04	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-2	1823821-04	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-2	1823821-04	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1823821-04	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-2	1823821-04	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-2	1823821-04	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-2	1823821-04	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-11-2	1823821-04	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-2	1823821-04	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1823821-04	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L

SDG: 1823821

Analytical 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	1823821-04	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1823821-04	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-2	1823821-04	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1823821-04	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1823821-04	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1823821-04	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1823821-04	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-2	1823821-04	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1823821-04	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1823821-04	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-2	1823821-04	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1823821-04	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-2	1823821-04	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1823821-04	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1823821-04	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823821

Analytical 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	1823821-04	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1823821-04	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1823821-04	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1823821-04	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1823821-04	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1823821-04	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1823821-04	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1823821-04	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1823821-04	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1823821-04	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1823821-04	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1823821-04	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1823821-04	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1823821-04	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-3	1823821-03	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-3	1823821-03	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-3	1823821-03	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1823821-03	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1823821-03	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823821

Analytical 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	1823821-03	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	Chloroform	8/3/2018	0.14	Y	y	v j		0.50	0.14	ug/L
MW-11-3	1823821-03	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-3	1823821-03	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1823821-03	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-3	1823821-03	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-3	1823821-03	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-3	1823821-03	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1823821-03	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1823821-03	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1823821-03	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1823821-03	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-11-3	1823821-03	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-3	1823821-03	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-3	1823821-03	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-3	1823821-03	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-3	1823821-03	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-3	1823821-03	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-3	1823821-03	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1823821-03	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1823821-03	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-11-3	1823821-03	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1823821-03	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-11-3	1823821-03	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L

SDG: 1823821

Analytical 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	1823821-03	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-11-3	1823821-03	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-3	1823821-03	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-3	1823821-03	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1823821-03	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-11-3	1823821-03	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-3	1823821-03	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1823821-03	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1823821-03	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1823821-03	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1823821-03	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1823821-03	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1823821-03	Styrene	8/3/2018	0.35	Y	y	v j		0.50	0.12	ug/L
MW-11-3	1823821-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1823821-03	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1823821-03	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1823821-03	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-3	1823821-03	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-3	1823821-03	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-3	1823821-03	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823821

Analytical 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	1823821-03	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1823821-03	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1823821-03	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1823821-03	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1823821-03	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1823821-03	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1823821-03	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1823821-03	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1823821-03	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1823821-03	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1823821-03	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1823821-03	Methyl t-butyl ether	8/3/2018	0.28	Y	y	v j		0.50	0.14	ug/L
MW-11-3	1823821-03	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1823821-03	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-3	1823821-03	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1823821-03	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-3	1823821-03	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-3	1823821-03	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1823821-03	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1823821-03	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-3	1823821-03	Carbon disulfide	8/3/2018	0.53	Y	y	v j		1.0	0.48	ug/L

SDG: 1823821

Analytical 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	1823821-03	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-11-3	1823821-03	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-3	1823821-03	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-3	1823821-03	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-3	1823821-03	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1823821-02	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1823821-02	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1823821-02	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1823821-02	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1823821-02	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1823821-02	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1823821-02	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1823821-02	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1823821-02	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1823821-02	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1823821-02	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1823821-02	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1823821

Analytical 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	1823821-02	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-4	1823821-02	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1823821-02	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-4	1823821-02	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1823821-02	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1823821-02	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1823821-02	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-4	1823821-02	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1823821-02	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1823821-02	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1823821-02	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1823821-02	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1823821-02	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-4	1823821-02	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1823821-02	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-11-4	1823821-02	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1823821-02	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1823821-02	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1823821-02	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823821

Analytical 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	1823821-02	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1823821-02	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-11-4	1823821-02	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1823821-02	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-4	1823821-02	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-11-4	1823821-02	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-11-4	1823821-02	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-11-4	1823821-02	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-11-4	1823821-02	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-11-4	1823821-02	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-11-4	1823821-02	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-11-4	1823821-02	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-11-4	1823821-02	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-11-4	1823821-02	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-4	1823821-02	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-11-4	1823821-02	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-11-4	1823821-02	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1823821-02	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-11-4	1823821-02	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-4	1823821-02	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-11-4	1823821-02	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-11-4	1823821-02	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-11-4	1823821-02	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1823821-02	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-11-4	1823821-02	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823821

Analytical 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	1823821-02	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1823821-02	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1823821-02	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1823821-02	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1823821-02	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1823821-02	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-11-4	1823821-02	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1823821-02	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-11-4	1823821-02	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-11-4	1823821-02	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1823821-02	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1823821-02	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1823821-02	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1823821-02	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-11-4	1823821-02	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-11-4	1823821-02	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1823821-09	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1823821-09	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823821

Analytical 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	1823821-09	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-2	1823821-09	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1823821-09	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1823821-09	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1823821-09	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-2	1823821-09	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1823821-09	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1823821-09	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1823821-09	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1823821-09	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-2	1823821-09	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1823821-09	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1823821-09	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1823821-09	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-2	1823821-09	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-2	1823821-09	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-2	1823821-09	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-2	1823821-09	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-2	1823821-09	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-2	1823821-09	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-2	1823821-09	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-2	1823821-09	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L

SDG: 1823821

Analytical 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	1823821-09	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-2	1823821-09	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1823821-09	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-12-2	1823821-09	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-2	1823821-09	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-2	1823821-09	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-2	1823821-09	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-12-2	1823821-09	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-2	1823821-09	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1823821-09	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-2	1823821-09	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1823821-09	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-2	1823821-09	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1823821-09	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1823821-09	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1823821-09	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1823821-09	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-2	1823821-09	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1823821-09	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1823821

Analytical 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	1823821-09	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-2	1823821-09	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-2	1823821-09	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-12-2	1823821-09	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1823821-09	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1823821-09	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1823821-09	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1823821-09	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1823821-09	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1823821-09	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1823821-09	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-2	1823821-09	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1823821-09	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1823821-09	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823821

Analytical 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	1823821-09	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1823821-09	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1823821-09	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1823821-09	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	1,1,1,2-Tetrachloroethane	8/4/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1823821-08	Styrene	8/4/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-3	1823821-08	n-Propylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-3	1823821-08	Naphthalene	8/4/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1823821-08	Methyl t-butyl ether	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	Methylene chloride	8/4/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1823821-08	p-Isopropyltoluene	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	Ethylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	Hexachlorobutadiene	8/4/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1823821-08	Vinyl chloride	8/4/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1823821-08	1,1-Dichloropropene	8/4/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1823821-08	trans-1,3-Dichloropropene	8/4/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1823821-08	cis-1,3-Dichloropropene	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	Tetrachloroethene	8/4/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1823821-08	Isopropylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	Allyl chloride	8/4/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-3	1823821-08	1,2,3-Trichlorobenzene	8/4/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1823821-08	1,2,4-Trichlorobenzene	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	1,1,1-Trichloroethane	8/4/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1823821-08	1,1,2-Trichloroethane	8/4/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1823821-08	Trichloroethene	8/4/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823821

Analytical 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	1823821-08	Trichlorofluoromethane	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	1,2,3-Trichloropropane	8/4/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-3	1823821-08	1,1,2-Trichloro-1,2,2-trifluoroethane	8/4/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1823821-08	1,3,5-Trimethylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	Acrylonitrile	8/4/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-3	1823821-08	Acetone	8/4/2018	10	Y	n	u		10	6.6	ug/L
MW-12-3	1823821-08	1,1,2,2-Tetrachloroethane	8/4/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1823821-08	2,2-Dichloropropane	8/4/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1823821-08	1,2,4-Trimethylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1823821-08	Tetrahydrofuran	8/4/2018	20	Y	n	u		20	5.2	ug/L
MW-12-3	1823821-08	Bromochloromethane	8/4/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1823821-08	Bromobenzene	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	Benzene	8/4/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1823821-08	t-Butyl alcohol	8/4/2018	10	Y	n	u		10	9.4	ug/L
MW-12-3	1823821-08	Carbon disulfide	8/4/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-3	1823821-08	Bromomethane	8/4/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-3	1823821-08	2-Nitropropane	8/4/2018	0	Y	y	v				ug/L
MW-12-3	1823821-08	Nitrobenzene	8/4/2018	0	Y	y	v				ug/L
MW-12-3	1823821-08	Methyl acrylate	8/4/2018	0	Y	y	v				ug/L
MW-12-3	1823821-08	1,1-Dichloropropanone	8/4/2018	0	Y	y	v				ug/L
MW-12-3	1823821-08	1-Chlorobutane	8/4/2018	0	Y	y	v				ug/L
MW-12-3	1823821-08	Chloroacetonitrile	8/4/2018	0	Y	y	v				ug/L
MW-12-3	1823821-08	t-Amyl Methyl ether	8/4/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1823821-08	p- & m-Xylenes	8/4/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-3	1823821-08	Methyl ethyl ketone	8/4/2018	10	Y	n	u		10	3.3	ug/L

SDG: 1823821

Analytical 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	1823821-08	Propionitrile	8/4/2018	20	Y	n	u		20	6.2	ug/L
MW-12-3	1823821-08	Pentachloroethane	8/4/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-3	1823821-08	Methyl methacrylate	8/4/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-3	1823821-08	Methyl isobutyl ketone	8/4/2018	10	Y	n	u		10	2.4	ug/L
MW-12-3	1823821-08	Methyl iodide	8/4/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-3	1823821-08	2-Hexanone	8/4/2018	10	Y	n	u		10	5.0	ug/L
MW-12-3	1823821-08	Hexachloroethane	8/4/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1823821-08	Ethyl t-butyl ether	8/4/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-3	1823821-08	Ethyl methacrylate	8/4/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-3	1823821-08	Diethyl ether	8/4/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-3	1823821-08	trans-1,4-Dichloro-2-butene	8/4/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-3	1823821-08	Toluene	8/4/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1823821-08	1,3-Dichloropropane	8/4/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1823821-08	o-Xylene	8/4/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1823821-08	1,2-Dichlorobenzene	8/4/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1823821-08	Carbon tetrachloride	8/4/2018	0.28	Y	y	v j		0.50	0.17	ug/L
MW-12-3	1823821-08	Chloroethane	8/4/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1823821-08	Chloromethane	8/4/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1823821-08	2-Chlorotoluene	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1823821-08	4-Chlorotoluene	8/4/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-3	1823821-08	Dibromochloromethane	8/4/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1823821-08	1,2-Dibromo-3-chloropropane	8/4/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-3	1823821-08	tert-Butylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1823821-08	Dibromomethane	8/4/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1823821-08	Chlorobenzene	8/4/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823821

Analytical 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	1823821-08	1,3-Dichlorobenzene	8/4/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1823821-08	1,4-Dichlorobenzene	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	Dichlorodifluoromethane	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	1,1-Dichloroethane	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	1,2-Dichloroethane	8/4/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1823821-08	1,1-Dichloroethene	8/4/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1823821-08	Bromodichloromethane	8/4/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1823821-08	Methacrylonitrile	8/4/2018	10	Y	n	u		10	2.3	ug/L
MW-12-3	1823821-08	1,2-Dibromoethane	8/4/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1823821-08	Chloroform	8/4/2018	0.57	Y	y	v		0.50	0.14	ug/L
MW-12-3	1823821-08	Bromoform	8/4/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-3	1823821-08	1,2-Dichloropropane	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	n-Butylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1823821-08	cis-1,2-Dichloroethene	8/4/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1823821-08	trans-1,2-Dichloroethene	8/4/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1823821-08	sec-Butylbenzene	8/4/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1823821-07	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1823821-07	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1823821-07	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1823821-07	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1823821-07	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1823821-07	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1823821-07	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823821

Analytical 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	1823821-07	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-4	1823821-07	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1823821-07	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1823821-07	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1823821-07	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1823821-07	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1823821-07	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1823821-07	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1823821-07	Chloroform	8/3/2018	0.36	Y	y	v j		0.50	0.14	ug/L
MW-12-4	1823821-07	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-4	1823821-07	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1823821-07	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-4	1823821-07	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1823821-07	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1823821-07	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1823821-07	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1823821-07	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1823821-07	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1823821-07	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1823821-07	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823821

Analytical 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	1823821-07	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1823821-07	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1823821-07	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1823821-07	Carbon tetrachloride	8/3/2018	0.26	Y	y	v j		0.50	0.17	ug/L
MW-12-4	1823821-07	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1823821-07	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1823821-07	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1823821-07	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1823821-07	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1823821-07	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-4	1823821-07	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1823821-07	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-4	1823821-07	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-4	1823821-07	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-4	1823821-07	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1823821-07	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-4	1823821-07	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1823821-07	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-4	1823821-07	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-4	1823821-07	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-4	1823821-07	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-4	1823821-07	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-4	1823821-07	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-4	1823821-07	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1823821-07	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L

SDG: 1823821

Analytical 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	1823821-07	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-12-4	1823821-07	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-12-4	1823821-07	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-12-4	1823821-07	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-12-4	1823821-07	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-12-4	1823821-07	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1823821-07	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-12-4	1823821-07	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1823821-07	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1823821-07	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1823821-07	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1823821-07	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-4	1823821-07	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1823821-07	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-4	1823821-07	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1823821-07	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1823821-07	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-4	1823821-07	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1823821-07	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-4	1823821-07	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1823821-07	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1823821-07	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-4	1823821-07	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-12-4	1823821-07	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1823821-07	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823821

Analytical 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	1823821-07	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-4	1823821-07	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-4	1823821-07	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-5	1823821-06	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-12-5	1823821-06	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-5	1823821-06	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-12-5	1823821-06	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-12-5	1823821-06	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-12-5	1823821-06	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-12-5	1823821-06	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1823821-06	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-12-5	1823821-06	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-12-5	1823821-06	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-12-5	1823821-06	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-12-5	1823821-06	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-12-5	1823821-06	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-12-5	1823821-06	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-12-5	1823821-06	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1823821-06	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1823821-06	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1823821-06	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1823821-06	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823821

Analytical 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	1823821-06	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-12-5	1823821-06	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1823821-06	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1823821-06	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1823821-06	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1823821-06	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1823821-06	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1823821-06	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1823821-06	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1823821-06	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-5	1823821-06	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-12-5	1823821-06	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-5	1823821-06	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-5	1823821-06	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1823821-06	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1823821-06	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1823821-06	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-5	1823821-06	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-5	1823821-06	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1823821-06	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1823821-06	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823821

Analytical 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	1823821-06	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1823821-06	Chloroform	8/3/2018	0.23	Y	y	v j		0.50	0.14	ug/L
MW-12-5	1823821-06	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1823821-06	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-12-5	1823821-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1823821-06	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1823821-06	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1823821-06	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-12-5	1823821-06	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-5	1823821-06	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-12-5	1823821-06	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1823821-06	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-12-5	1823821-06	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-12-5	1823821-06	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-12-5	1823821-06	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-12-5	1823821-06	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-12-5	1823821-06	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1823821-06	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1823821-06	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1823821-06	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-12-5	1823821-06	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1823821-06	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823821

Analytical 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	1823821-06	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1823821-06	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1823821-06	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1823821-06	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1823821-06	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1823821-06	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1823821-06	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1823821-06	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1823821-06	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1823821-06	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1823821-06	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1823821-06	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1823821-06	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-080118	1823821-01	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-080118	1823821-01	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-080118	1823821-01	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-080118	1823821-01	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-080118	1823821-01	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-080118	1823821-01	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-080118	1823821-01	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823821

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-7-080118	1823821-01	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-080118	1823821-01	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-080118	1823821-01	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-080118	1823821-01	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-080118	1823821-01	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-080118	1823821-01	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-080118	1823821-01	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-080118	1823821-01	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-080118	1823821-01	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-080118	1823821-01	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
TB-7-080118	1823821-01	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-080118	1823821-01	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-080118	1823821-01	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-7-080118	1823821-01	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-7-080118	1823821-01	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-080118	1823821-01	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-080118	1823821-01	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-080118	1823821-01	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823821

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-7-080118	1823821-01	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-080118	1823821-01	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-7-080118	1823821-01	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-080118	1823821-01	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-080118	1823821-01	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
TB-7-080118	1823821-01	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-080118	1823821-01	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-080118	1823821-01	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-080118	1823821-01	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-080118	1823821-01	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
TB-7-080118	1823821-01	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-080118	1823821-01	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-080118	1823821-01	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
TB-7-080118	1823821-01	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
TB-7-080118	1823821-01	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
TB-7-080118	1823821-01	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-7-080118	1823821-01	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
TB-7-080118	1823821-01	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
TB-7-080118	1823821-01	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
TB-7-080118	1823821-01	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-7-080118	1823821-01	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-7-080118	1823821-01	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-080118	1823821-01	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L

SDG: 1823821

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-7-080118	1823821-01	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
TB-7-080118	1823821-01	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
TB-7-080118	1823821-01	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
TB-7-080118	1823821-01	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
TB-7-080118	1823821-01	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-080118	1823821-01	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
TB-7-080118	1823821-01	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
TB-7-080118	1823821-01	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-080118	1823821-01	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-080118	1823821-01	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-080118	1823821-01	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-080118	1823821-01	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
TB-7-080118	1823821-01	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-080118	1823821-01	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
TB-7-080118	1823821-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-080118	1823821-01	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
TB-7-080118	1823821-01	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
TB-7-080118	1823821-01	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-080118	1823821-01	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
TB-7-080118	1823821-01	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-080118	1823821-01	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-080118	1823821-01	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
TB-7-080118	1823821-01	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
TB-7-080118	1823821-01	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L

SDG: 1823821

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-7-080118	1823821-01	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-080118	1823821-01	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

Analytical Method		EPA-7196									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-080118	1823821-10	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-1	1823821-05	Hexavalent Chromium	8/1/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-2	1823821-04	Hexavalent Chromium	8/1/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-11-3	1823821-03	Hexavalent Chromium	8/1/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-12-2	1823821-09	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-12-3	1823821-08	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

LDC #: 43050

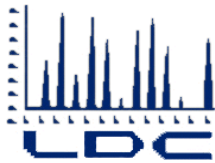
EDD POPULATION COMPLETENESS WORKSHEET

Date: 9/25/18
 Page: 1 of 1
 2nd Reviewer: SC

The LDC job number listed above was entered by CS.
 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

September 26, 2018

SUBJECT: NASA JPL, 3Q2018, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on September 5, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #43076:

<u>SDG #</u>	<u>Fraction</u>
1823555, 1823982	Volatiles, Chromium, Wet Chemistry

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

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

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

Sincerely,

Pei Geng
Project Manager/Senior Chemist

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 24, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823555

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-5-073018	1823555-01	Water	07/30/18
MW-24-3**	1823555-03**	Water	07/30/18
MW-24-2	1823555-04	Water	07/30/18
MW-24-1	1823555-05	Water	07/30/18
Dup-3-3Q18	1823555-06	Water	07/30/18
MW-17-4	1823555-07	Water	07/30/18
MW-17-3**	1823555-08**	Water	07/30/18
MW-17-2	1823555-09	Water	07/30/18
EB-5-073018	1823555-10	Water	07/30/18
SB-2-073018	1823555-11	Water	07/30/18
MW-17-4MS	1823555-07MS	Water	07/30/18
MW-17-4MSD	1823555-07MSD	Water	07/30/18

**Indicates sample underwent Level IV review

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

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

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

Date	Compound	%D	Associated Samples	Flag	A or P
07/06/18	Pentachloroethane	51.5	TB-5-073018 MW-24-3** MW-24-2 MW-24-1 MW-17-4 MW-17-3** MW-17-2 EB-5-073018 SB-2-073018	UJ (all non-detects)	P

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
08/03/18 (02AUG64)	Bromomethane 2,2-Dichloropropane	47.0 36.1	TB-5-073018 MW-24-3** MW-24-2 MW-24-1 MW-17-4 MW-17-3** MW-17-2 EB-5-073018 SB-2-073018	UJ (all non-detects) UJ (all non-detects)	P
08/03/18 (02AUG65)	Methyl iodide Pentachloroethane	42.0 43.7	TB-5-073018 MW-24-3** MW-24-2 MW-24-1 MW-17-4 MW-17-3** MW-17-2 EB-5-073018 SB-2-073018	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-5-073018 was identified as a trip blank. No contaminants were found.

Sample EB-5-073018 was identified as an equipment blank. No contaminants were found.

Sample SB-2-073018 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-24-1 and Dup-3-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-24-1	Dup-3-3Q18	
Chloroform	2.6	1.4	60

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

Due to ICV %D and continuing calibration %D, data were qualified as estimated in 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, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823555

Sample	Compound	Flag	A or P	Reason
TB-5-073018 MW-24-3** MW-24-2 MW-24-1 MW-17-4 MW-17-3** MW-17-2 EB-5-073018 SB-2-073018	Pentachloroethane	UJ (all non-detects)	P	Initial calibration verification (%D)
TB-5-073018 MW-24-3** MW-24-2 MW-24-1 MW-17-4 MW-17-3** MW-17-2 EB-5-073018 SB-2-073018	Bromomethane 2,2-Dichloropropane 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, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823555

No Sample Data Qualified in this SDG

LDC #: 43076A1
 SDG #: 1823555
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 8/1/18
 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 MW	RSB ≤ 20%. Y ² 1CV ≤ 30%
IV.	Continuing calibration	MW	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=9. SB=10
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	MW	D=4+5
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

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

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-5-073018	1823555-01	Water	07/30/18
2	MW-24-3**	1823555-03**	Water	07/30/18
3	MW-24-2	1823555-04	Water	07/30/18
4	MW-24-1	1823555-05	Water	07/30/18
5	Dup-3-3Q18	1823555-06	Water	07/30/18
6	MW-17-4	1823555-07	Water	07/30/18
7	MW-17-3**	1823555-08**	Water	07/30/18
8	MW-17-2	1823555-09	Water	07/30/18
9	EB-5-073018	1823555-10	Water	07/30/18
10	SB-2-073018	1823555-11	Water	07/30/18
11	MW-17-4MS	1823555-07MS	Water	07/30/18
12	MW-17-4MSD	1823555-07MSD	Water	07/30/18
13				

Method: Volatiles (EPA Method 524.2)

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

LDC #: 43076A1

VALIDATION FINDINGS CHECKLIST

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

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
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.

LDC#: 43076A

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	
K	2.6	1.4	60

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2018\43076A1_JPL.wpd

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

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)	7/6/18	V (1st internal standard)	1.83743	1.83743	1.817852	1.817852	5.837117	5.837
			CC (2nd internal standard)	0.8743117	0.8743116	0.841781	0.841781	7.616755	7.617
			EE (3rd internal standard)	2.010099	2.010099	1.949139	1.949139	6.312443	6.312
			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	02AUG64	8/3/18	V (1st internal standard)	1.817852	1.776509	1.776509	2.3	2.3
			CC (2nd internal standard)	0.841781	0.8244099	0.8244098	2.1	2.1
			EE (3rd internal standard)	1.949139	1.964814	1.964814	0.8	0.8
			HHH (4th internal standard)					
2			V (1st internal standard)					
			CC (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.

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: 11/12

Compound	Spike Added (µg/L)		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	25.000	25.000	ND	24.860	24.810	99.4	99.4	99.2	99.2	0.20	0.20
Trichloroethene			0.640	25.770	25.330	101	101	98.7	98.7	2.12	2.12
Benzene			ND	25.790	25.680	103	103	103	103	0.427	0.427
Toluene				25.250	24.600	101	101	98.4	98.4	2.61	2.61
Chlorobenzene				24.450	25.050	97.8	97.8	100	100	0.42	0.42

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:

% 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: B020600-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>25.050</u>	<u>NA</u>	<u>100</u>	<u>100</u>				
Trichloroethene	↓	↓	<u>24.560</u>	↓	<u>98.2</u>	<u>98.2</u>				
Benzene	↓	↓	<u>24.870</u>	↓	<u>99.5</u>	<u>99.5</u>				
Toluene	↓	↓	<u>24.340</u>	↓	<u>97.4</u>	<u>97.4</u>				
Chlorobenzene	↓	↓	<u>23.960</u>	↓	<u>95.8</u>	<u>95.8</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.

LDC #: 12076A

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: 9
2nd reviewer: JV

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: 2

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.13	91.3	91.3	0
Bromofluorobenzene	↓	9.32	93.2	93.2	↓
1,2-Dichlorobenzene-d4	↓	9.19	91.9	91.9	↓
Dibromofluoromethane					

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 19, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823555

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-24-4	1823555-02	Water	07/30/18
MW-24-3**	1823555-03**	Water	07/30/18
MW-24-2	1823555-04	Water	07/30/18
MW-24-1	1823555-05	Water	07/30/18
Dup-3-3Q18	1823555-06	Water	07/30/18
MW-17-4	1823555-07	Water	07/30/18
MW-17-3**	1823555-08**	Water	07/30/18
MW-17-2	1823555-09	Water	07/30/18
EB-5-073018	1823555-10	Water	07/30/18
SB-2-073018	1823555-11	Water	07/30/18
MW-17-4MS	1823555-07MS	Water	07/30/18
MW-17-4MSD	1823555-07MSD	Water	07/30/18
MW-17-4DUP	1823555-07DUP	Water	07/30/18
MW-24-2MS	1823555-04MS	Water	07/30/18
MW-24-2MSD	1823555-04MSD	Water	07/30/18
MW-24-2DUP	1823555-04DUP	Water	07/30/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
08/03/18	CCV (05:35)	Chromium	112 (90-110)	MW-24-4 MW-24-3**	J (all detects)	P

IV. ICP Interference Check Sample Analysis

ICP interference check sample analysis data were not required by the method.

V. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	2.3170 ug/L	MW-24-4 MW-24-3** MW-17-4

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-24-4	Chromium	2.1 ug/L	2.1U ug/L
MW-24-3**	Chromium	1.9 ug/L	1.9U ug/L
MW-17-4	Chromium	3.3 ug/L	3.3U ug/L

VI. Field Blanks

Sample EB-5-073018 was identified as an equipment blank. No contaminants were found.

Sample SB-2-073018 was identified as a source blank. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-24-1 and Dup-3-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-24-1	Dup-3-3Q18	
Chromium	2.8	3.1	10

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

Due to instrument calibration %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, 3Q2018
Chromium - Data Qualification Summary - SDG 1823555

Sample	Analyte	Flag	A or P	Reason
MW-24-4 MW-24-3**	Chromium	J (all detects)	P	Instrument calibration (%R)

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823555

Sample	Analyte	Modified Final Concentration	A or P
MW-24-4	Chromium	2.1U ug/L	A
MW-24-3**	Chromium	1.9U ug/L	A
MW-17-4	Chromium	3.3U ug/L	A

LDC #: 43076A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/18/18

SDG #: 1823555

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: *AL*2nd Reviewer: *AL*

METHOD: Metals (EPA Method 200.8)

CY

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	N	not required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	ND	EB=9, SB=10
VII.	Matrix Spike/Matrix Spike Duplicates	A	
VIII.	Duplicate sample analysis	A	
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(4,5)
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV validation 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 = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-24-4	1823555-02	Water	07/30/18
2	MW-24-3**	1823555-03**	Water	07/30/18
3	MW-24-2	1823555-04	Water	07/30/18
4	MW-24-1	1823555-05	Water	07/30/18
5	Dup-3-3Q18	1823555-06	Water	07/30/18
6	MW-17-4	1823555-07	Water	07/30/18
7	MW-17-3**	1823555-08**	Water	07/30/18
8	MW-17-2	1823555-09	Water	07/30/18
9	EB-5-073018	1823555-10	Water	07/30/18
10	SB-2-073018	1823555-11	Water	07/30/18
11	MW-17-4MS	1823555-07MS	Water	07/30/18
12	MW-17-4MSD	1823555-07MSD	Water	07/30/18
13	MW-17-4DUP	1823555-07DUP	Water	07/30/18
14	MW-24-2MS	1823555-04MS	Water	07/30/18
15	MW-24-2MSD	1823555-04MSD	Water	07/30/18

LDC #: 43076A4a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1823555

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 9/18/18

Page: 2 of 2

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: Metals (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-24-2DUP	1823555-04DUP	Water	07/30/18
17				
18				
20				

Notes: _____

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

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

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

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: NA
 Associated Samples: 1,2,6


Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	6						
Cr		2.3170		11.585	2.1	1.9	3.3						

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#: 43076A4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: ATL
2nd Reviewer: 

METHOD: Metals (EPA Method 6010B/6020/7000/200.8)

Analyte	Concentration (ug/L)		RPD	
	4	5		
Chromium	2.8	3.1	10	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43076A4a.wpd

LDC #: 43076A4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

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

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)						
CRL3	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 8/2 @ 10:57	Cr	49.301	50.000	98.6	98.6	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV1	ICP/MS (Continuing calibration) 8/3 @ 05:35	Cr	44.864	40.000	112	112	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis 8/2 @ 7:02	102.905	102.879	± 0.1 AMU	NA	Y
	%RSD 8/2 @ 6:57	114.9	553238.8	≤ 5% RSD	1.4	Y

Comments:

LDC #: 43076A4a

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LC5	Laboratory control sample 8/3 e 06:05	Cr	44.936	40.000	112	112	Y
11	Matrix spike 8/3 e 04:36	Cr	(SSR-SR) 39.343	40.000	98.3	98.3	Y
11/12	Duplicate 8/3 e 04:40	Cr	41.420	42.643	2.91	2.91	Y
3	Post digestion spike 8/3 e 06:30	Cr	40.008	40.000	100	100	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 19, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823555

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-24-4	1823555-02	Water	07/30/18
MW-24-3**	1823555-03**	Water	07/30/18
MW-24-2	1823555-04	Water	07/30/18
MW-24-1	1823555-05	Water	07/30/18
Dup-3-3Q18	1823555-06	Water	07/30/18
MW-17-4	1823555-07	Water	07/30/18
MW-17-3**	1823555-08**	Water	07/30/18
MW-17-2	1823555-09	Water	07/30/18
EB-5-073018	1823555-10	Water	07/30/18
SB-2-073018	1823555-11	Water	07/30/18
MW-24-1MS	1823555-05MS	Water	07/30/18
MW-24-1MSD	1823555-05MSD	Water	07/30/18
MW-24-1DUP	1823555-05DUP	Water	07/30/18
MW-17-4MS	1823555-07MS	Water	07/30/18
MW-17-4MSD	1823555-07MSD	Water	07/30/18
MW-17-4DUP	1823555-07DUP	Water	07/30/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Perchlorate by EPA Method 314.0

Chloride, Sulfate, and Nitrate as Nitrogen by EPA Method 300.0

Nitrite as Nitrogen by EPA method 353.2

Ortho-Phosphate as Phosphorous by EPA Method 365.1

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.

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
PB (prep blank)	Nitrite as N	0.019851 mg/L	MW-24-1
ICB/CCB	Nitrite as N	0.017605 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-24-1	Nitrite as N	0.021 mg/L	0.021U mg/L

V. Field Blanks

Sample EB-5-073018 was identified as an equipment blank. No contaminants were found.

Sample SB-2-073018 was identified as a source blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-24-1 and Dup-3-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-24-1	Dup-3-3Q18	
Perchlorate	0.64	0.70	9

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to laboratory blank contamination, data were qualified as not detected in one sample.

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, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823555

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823555

Sample	Analyte	Modified Final Concentration	A or P
MW-24-1	Nitrite as N	0.021U mg/L	A

LDC #: 43076A6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/18/18

SDG #: 1823555

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATC2nd Reviewer: ATC

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), Chloride, Sulfate, Nitrate as N (EPA Method 300.0), Nitrate as N (EPA Method 353.2), ortho-Phosphate as P (PEA method 365.1)

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, A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	SW	
V	Field blanks	ND	EB=9, SB=10
VI.	Matrix Spike/Matrix Spike Duplicates	A	(11,12), (14,15)
VII.	Duplicate sample analysis	A	13, 16
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(4,5)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-24-4	1823555-02	Water	07/30/18
2	MW-24-3**	1823555-03**	Water	07/30/18
3	MW-24-2	1823555-04	Water	07/30/18
4	MW-24-1	1823555-05	Water	07/30/18
5	Dup-3-3Q18	1823555-06	Water	07/30/18
6	MW-17-4	1823555-07	Water	07/30/18
7	MW-17-3**	1823555-08**	Water	07/30/18
8	MW-17-2	1823555-09	Water	07/30/18
9	EB-5-073018	1823555-10	Water	07/30/18
10	SB-2-073018	1823555-11	Water	07/30/18
11	MW-24-1MS	1823555-05MS	Water	07/30/18
12	MW-24-1MSD	1823555-05MSD	Water	07/30/18
13	MW-24-1DUP	1823555-05DUP	Water	07/30/18
14	MW-17-4MS	1823555-07MS	Water	07/30/18
15	MW-17-4MSD	1823555-07MSD	Water	07/30/18
16	MW-17-4DUP	1823555-07DUP	Water	07/30/18
17				

Method: Inorganics (EPA Method *See cover*)

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

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

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 4

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)		4									
NO2-N	0.019851		0.099255	0.021									
NO2-N		0.017605	0.088025	see above									

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# 43076A6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

Inorganics: Method See Cover

Analyte	Concentration (ug/L)		RPD	
	4	5		
Perchlorate	0.64	0.70	9	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43076A6.wpd

LDC #: 43076AG

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

Page: 1 of 1
 Reviewer: AH
 2nd Reviewer: CF

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 07/30/2018

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. (mg/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	<u>Cr6+</u>	s1	0.0	0.00127	0.99991	0.99986	Y
		s2	0.002	0.00258			
		s3	0.005	0.0045			
		s4	0.025	0.01777			
		s5	0.05	0.03447			
		s6	0.1	0.06644			
<u>CCV6</u> Calibration verification	<u>Cr6+</u>	<u>FOUND</u> 0.05039	<u>TRUE</u> 0.05000		101	101	Y
<u>CCV6 (8/16 @ 12:41)</u> Calibration verification	<u>ClO4-</u>	9.755	10.000		97.6	96.7	Y
<u>CCV7 (8/16 @ 15:49)</u> Calibration verification	<u>ClO4-</u>	10.642	10.000		106	103	Y

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

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 8/16 @ 07:04	ClO_4^-	mg/L 11.528	mg/L 10.000	115	109	Y
14	Matrix spike sample	Cr_6+	(SSR-SR) mg/L 0.055284	mg/L 0.052632	105	105	Y
14/15	Duplicate sample	Cr_6+	mg/L 0.056074	mg/L 0.056065	0.0161	0.0131	Y

Comments: _____

LDC# 43076 - NASA JPL, 3Q2018

SDG: 1823555

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-3-3Q18	1823555-06	Total Recoverable Chromium	8/3/2018	3.1	Y	y	v		3.0	0.50	ug/L
EB-5-073018	1823555-10	Total Recoverable Chromium	8/3/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-2	1823555-09	Total Recoverable Chromium	8/3/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-3	1823555-08	Total Recoverable Chromium	8/3/2018	3	Y	n	u		3.0	0.50	ug/L
MW-17-4	1823555-07	Total Recoverable Chromium	8/3/2018	3.3	Y	y	v	U	3.0	0.50	ug/L
MW-24-1	1823555-05	Total Recoverable Chromium	8/3/2018	2.8	Y	y	v j		3.0	0.50	ug/L
MW-24-2	1823555-04	Total Recoverable Chromium	8/3/2018	2.4	Y	y	v j		3.0	0.50	ug/L
MW-24-3	1823555-03	Total Recoverable Chromium	8/3/2018	1.9	Y	y	v j	UJ	3.0	0.50	ug/L
MW-24-4	1823555-02	Total Recoverable Chromium	8/3/2018	2.1	Y	y	v j	UJ	3.0	0.50	ug/L
SB-2-073018	1823555-11	Total Recoverable Chromium	8/3/2018	3	Y	n	u		3.0	0.50	ug/L

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1823555-05	Sulfate	7/31/2018	54	Y	y	v		1.0	0.13	mg/L
MW-24-1	1823555-05	Nitrate as N	7/31/2018	1.4	Y	y	v		0.10	0.021	mg/L
MW-24-1	1823555-05	Chloride	7/31/2018	94	Y	y	v		0.50	0.077	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-3-3Q18	1823555-06	Perchlorate	8/16/2018	0.7	Y	y	v j		4.0	0.58	ug/L
EB-5-073018	1823555-10	Perchlorate	8/16/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-2	1823555-09	Perchlorate	8/16/2018	4	Y	n	u		4.0	0.58	ug/L
MW-17-3	1823555-08	Perchlorate	8/16/2018	3.5	Y	y	v j		4.0	0.58	ug/L
MW-17-4	1823555-07	Perchlorate	8/16/2018	3.1	Y	y	v j		4.0	0.58	ug/L
MW-24-1	1823555-05	Perchlorate	8/16/2018	0.64	Y	y	v j		4.0	0.58	ug/L

SDG: 1823555

Analytical Method EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-2	1823555-04	Perchlorate	8/16/2018	1.5	Y	y	v j		4.0	0.58	ug/L
MW-24-3	1823555-03	Perchlorate	8/16/2018	4	Y	n	u		4.0	0.58	ug/L
SB-2-073018	1823555-11	Perchlorate	8/16/2018	4	Y	n	u		4.0	0.58	ug/L
Analytical Method EPA-353.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1823555-05	Nitrite as N	7/31/2018	0.021	Y	y	v j	U	0.050	0.010	mg/L
Analytical Method EPA-365.1											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1823555-05	ortho-Phosphate as P	7/31/2018	0.05	Y	n	u		0.050	0.017	mg/L
Analytical Method EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-3Q18	1823555-06	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
Dup-3-3Q18	1823555-06	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
Dup-3-3Q18	1823555-06	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
Dup-3-3Q18	1823555-06	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
Dup-3-3Q18	1823555-06	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
Dup-3-3Q18	1823555-06	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
Dup-3-3Q18	1823555-06	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q18	1823555-06	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
Dup-3-3Q18	1823555-06	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
Dup-3-3Q18	1823555-06	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
Dup-3-3Q18	1823555-06	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-3-3Q18	1823555-06	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823555

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-3-3Q18	1823555-06	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-3-3Q18	1823555-06	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-3-3Q18	1823555-06	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
Dup-3-3Q18	1823555-06	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-3-3Q18	1823555-06	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
Dup-3-3Q18	1823555-06	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
Dup-3-3Q18	1823555-06	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
Dup-3-3Q18	1823555-06	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
Dup-3-3Q18	1823555-06	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
Dup-3-3Q18	1823555-06	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-3-3Q18	1823555-06	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
Dup-3-3Q18	1823555-06	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
Dup-3-3Q18	1823555-06	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
Dup-3-3Q18	1823555-06	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
Dup-3-3Q18	1823555-06	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
Dup-3-3Q18	1823555-06	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
Dup-3-3Q18	1823555-06	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
Dup-3-3Q18	1823555-06	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
Dup-3-3Q18	1823555-06	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
Dup-3-3Q18	1823555-06	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
Dup-3-3Q18	1823555-06	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
Dup-3-3Q18	1823555-06	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823555

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-3-3Q18	1823555-06	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q18	1823555-06	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-3-3Q18	1823555-06	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q18	1823555-06	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
Dup-3-3Q18	1823555-06	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q18	1823555-06	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-3-3Q18	1823555-06	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
Dup-3-3Q18	1823555-06	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-3-3Q18	1823555-06	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q18	1823555-06	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q18	1823555-06	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-3-3Q18	1823555-06	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-3-3Q18	1823555-06	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q18	1823555-06	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-3-3Q18	1823555-06	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
Dup-3-3Q18	1823555-06	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823555

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-3-3Q18	1823555-06	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
Dup-3-3Q18	1823555-06	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q18	1823555-06	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-3-3Q18	1823555-06	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
Dup-3-3Q18	1823555-06	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
Dup-3-3Q18	1823555-06	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
Dup-3-3Q18	1823555-06	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q18	1823555-06	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q18	1823555-06	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
Dup-3-3Q18	1823555-06	Chloroform	8/7/2018	1.4	Y	y	v		0.50	0.14	ug/L
Dup-3-3Q18	1823555-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q18	1823555-06	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
Dup-3-3Q18	1823555-06	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
Dup-3-3Q18	1823555-06	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-3-3Q18	1823555-06	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
Dup-3-3Q18	1823555-06	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
Dup-3-3Q18	1823555-06	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q18	1823555-06	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-073018	1823555-10	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L

SDG: 1823555

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-5-073018	1823555-10	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
EB-5-073018	1823555-10	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
EB-5-073018	1823555-10	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
EB-5-073018	1823555-10	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
EB-5-073018	1823555-10	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-073018	1823555-10	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-073018	1823555-10	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-073018	1823555-10	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-073018	1823555-10	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-5-073018	1823555-10	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-5-073018	1823555-10	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-5-073018	1823555-10	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-073018	1823555-10	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
EB-5-073018	1823555-10	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-073018	1823555-10	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-5-073018	1823555-10	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-073018	1823555-10	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823555

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-5-073018	1823555-10	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-073018	1823555-10	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
EB-5-073018	1823555-10	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
EB-5-073018	1823555-10	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
EB-5-073018	1823555-10	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-5-073018	1823555-10	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-073018	1823555-10	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-5-073018	1823555-10	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
EB-5-073018	1823555-10	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
EB-5-073018	1823555-10	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
EB-5-073018	1823555-10	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
EB-5-073018	1823555-10	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
EB-5-073018	1823555-10	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
EB-5-073018	1823555-10	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
EB-5-073018	1823555-10	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
EB-5-073018	1823555-10	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
EB-5-073018	1823555-10	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1823555

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-5-073018	1823555-10	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-073018	1823555-10	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
EB-5-073018	1823555-10	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-5-073018	1823555-10	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
EB-5-073018	1823555-10	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
EB-5-073018	1823555-10	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
EB-5-073018	1823555-10	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
EB-5-073018	1823555-10	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
EB-5-073018	1823555-10	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
EB-5-073018	1823555-10	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-073018	1823555-10	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-073018	1823555-10	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
EB-5-073018	1823555-10	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-073018	1823555-10	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-073018	1823555-10	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
EB-5-073018	1823555-10	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
EB-5-073018	1823555-10	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
EB-5-073018	1823555-10	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
EB-5-073018	1823555-10	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
EB-5-073018	1823555-10	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
EB-5-073018	1823555-10	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L

SDG: 1823555

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-5-073018	1823555-10	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
EB-5-073018	1823555-10	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
EB-5-073018	1823555-10	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
EB-5-073018	1823555-10	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
EB-5-073018	1823555-10	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
EB-5-073018	1823555-10	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
EB-5-073018	1823555-10	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
EB-5-073018	1823555-10	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
EB-5-073018	1823555-10	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
EB-5-073018	1823555-10	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1823555-09	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1823555-09	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1823555-09	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1823555-09	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1823555-09	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1823555-09	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1823555-09	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823555

Analytical 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	1823555-09	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1823555-09	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1823555-09	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1823555-09	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-2	1823555-09	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1823555-09	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-2	1823555-09	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-17-2	1823555-09	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1823555-09	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1823555-09	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1823555-09	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-2	1823555-09	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-2	1823555-09	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1823555-09	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1823555-09	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1823555

Analytical 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	1823555-09	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1823555-09	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-2	1823555-09	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1823555-09	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-2	1823555-09	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-17-2	1823555-09	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-2	1823555-09	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-2	1823555-09	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1823555-09	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-17-2	1823555-09	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-17-2	1823555-09	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-2	1823555-09	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-17-2	1823555-09	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-2	1823555-09	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-2	1823555-09	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-2	1823555-09	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-17-2	1823555-09	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-2	1823555-09	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1823555-09	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-17-2	1823555-09	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-17-2	1823555-09	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-17-2	1823555-09	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-17-2	1823555-09	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-17-2	1823555-09	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L

SDG: 1823555

Analytical 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	1823555-09	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-2	1823555-09	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1823555-09	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-2	1823555-09	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-2	1823555-09	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-17-2	1823555-09	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1823555-09	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-17-2	1823555-09	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1823555-09	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-2	1823555-09	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1823555-09	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1823555-09	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1823555-09	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1823555-09	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1823555-09	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1823555-09	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1823555-09	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1823555-09	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1823555-09	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1823555-09	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1823555-09	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-17-3	1823555-08	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1823555

Analytical 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	1823555-08	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-17-3	1823555-08	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-17-3	1823555-08	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-17-3	1823555-08	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-17-3	1823555-08	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-17-3	1823555-08	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-3	1823555-08	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-17-3	1823555-08	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-17-3	1823555-08	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1823555-08	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1823555-08	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1823555-08	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1823555-08	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1823555-08	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-3	1823555-08	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1823555-08	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-3	1823555-08	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1823555-08	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823555

Analytical 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	1823555-08	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-3	1823555-08	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1823555-08	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1823555-08	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1823555-08	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1823555-08	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-3	1823555-08	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-3	1823555-08	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-3	1823555-08	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1823555-08	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	Chloroform	8/3/2018	0.28	Y	y	v j		0.50	0.14	ug/L
MW-17-3	1823555-08	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1823555-08	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-3	1823555-08	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1823555-08	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1823555-08	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-17-3	1823555-08	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1823555-08	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823555

Analytical 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	1823555-08	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-3	1823555-08	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1823555-08	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-17-3	1823555-08	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-3	1823555-08	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-3	1823555-08	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1823555-08	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-3	1823555-08	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1823555-08	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-17-3	1823555-08	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-17-3	1823555-08	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-17-3	1823555-08	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-3	1823555-08	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-17-3	1823555-08	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-3	1823555-08	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1823555-08	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1823555-08	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1823555-08	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1823555-08	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1823555-08	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	Tetrachloroethene	8/3/2018	0.27	Y	y	v j		0.50	0.23	ug/L

SDG: 1823555

Analytical 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	1823555-08	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-3	1823555-08	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1823555-08	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1823555-08	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1823555-08	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1823555-08	Trichloroethene	8/3/2018	1.2	Y	y	v		0.50	0.19	ug/L
MW-17-3	1823555-08	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1823555-08	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-3	1823555-08	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1823555-08	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-17-4	1823555-07	Trichloroethene	8/3/2018	0.64	Y	y	v		0.50	0.19	ug/L
MW-17-4	1823555-07	Tetrachloroethene	8/3/2018	0.28	Y	y	v j		0.50	0.23	ug/L
MW-17-4	1823555-07	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1823555-07	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1823555-07	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1823555-07	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-17-4	1823555-07	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1823555-07	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1823555-07	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823555

Analytical 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	1823555-07	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1823555-07	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-17-4	1823555-07	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1823555-07	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1823555-07	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1823555-07	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1823555-07	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1823555-07	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1823555-07	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1823555-07	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-17-4	1823555-07	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-17-4	1823555-07	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-17-4	1823555-07	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-17-4	1823555-07	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-17-4	1823555-07	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-17-4	1823555-07	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1823555-07	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-17-4	1823555-07	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L

SDG: 1823555

Analytical 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	1823555-07	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-17-4	1823555-07	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-17-4	1823555-07	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-17-4	1823555-07	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1823555-07	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1823555-07	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1823555-07	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-4	1823555-07	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-17-4	1823555-07	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1823555-07	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1823555-07	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-17-4	1823555-07	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-4	1823555-07	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-4	1823555-07	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-4	1823555-07	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-17-4	1823555-07	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-17-4	1823555-07	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-17-4	1823555-07	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-17-4	1823555-07	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-17-4	1823555-07	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-4	1823555-07	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-17-4	1823555-07	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-4	1823555-07	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-17-4	1823555-07	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823555

Analytical 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	1823555-07	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1823555-07	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-17-4	1823555-07	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1823555-07	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	Chloroform	8/3/2018	0.41	Y	y	v j		0.50	0.14	ug/L
MW-17-4	1823555-07	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1823555-07	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1823555-07	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-4	1823555-07	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-17-4	1823555-07	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1823555-07	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-4	1823555-07	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1823555-07	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1823555-07	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1823555-07	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1823555-07	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1823555-07	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1823555-05	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1823555

Analytical 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	1823555-05	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1823555-05	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1823555-05	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1823555-05	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-1	1823555-05	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1823555-05	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1823555-05	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1823555-05	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1823555-05	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1823555-05	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1823555-05	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1823555-05	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-1	1823555-05	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-24-1	1823555-05	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823555

Analytical 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	1823555-05	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1823555-05	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1823555-05	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1823555-05	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1823555-05	Chloroform	8/3/2018	2.6	Y	y	v		0.50	0.14	ug/L
MW-24-1	1823555-05	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1823555-05	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-1	1823555-05	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1823555-05	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-1	1823555-05	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1823555-05	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1823555-05	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1823555-05	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-1	1823555-05	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1823555-05	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-24-1	1823555-05	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-24-1	1823555-05	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-24-1	1823555-05	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-24-1	1823555-05	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-1	1823555-05	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-1	1823555-05	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-1	1823555-05	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L

SDG: 1823555

Analytical 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	1823555-05	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1823555-05	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-24-1	1823555-05	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-1	1823555-05	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-24-1	1823555-05	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1823555-05	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1823555-05	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-1	1823555-05	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1823555-05	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-24-1	1823555-05	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-1	1823555-05	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1823555-05	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1823555-05	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1823555-05	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1823555-05	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1823555-05	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1823555-05	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1823555-05	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-1	1823555-05	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1823555-05	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-24-1	1823555-05	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-24-1	1823555-05	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L

SDG: 1823555

Analytical 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	1823555-05	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-24-1	1823555-05	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-24-1	1823555-05	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-1	1823555-05	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-24-1	1823555-05	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-1	1823555-05	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-1	1823555-05	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1823555-05	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1823555-05	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1823555-04	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1823555-04	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1823555-04	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1823555-04	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-24-2	1823555-04	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1823555-04	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-2	1823555-04	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1823555-04	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-24-2	1823555-04	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-2	1823555-04	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-2	1823555-04	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L

SDG: 1823555

Analytical 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	1823555-04	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-2	1823555-04	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-2	1823555-04	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1823555-04	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-24-2	1823555-04	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-24-2	1823555-04	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-2	1823555-04	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1823555-04	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1823555-04	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1823555-04	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-2	1823555-04	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-24-2	1823555-04	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1823555-04	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1823555-04	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	Chloroform	8/3/2018	0.18	Y	y	v j		0.50	0.14	ug/L
MW-24-2	1823555-04	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1823555-04	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-2	1823555-04	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-2	1823555-04	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823555

Analytical 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	1823555-04	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1823555-04	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1823555-04	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-2	1823555-04	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-24-2	1823555-04	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-24-2	1823555-04	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-2	1823555-04	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-2	1823555-04	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
MW-24-2	1823555-04	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-24-2	1823555-04	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1823555-04	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-2	1823555-04	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-2	1823555-04	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-2	1823555-04	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1823555-04	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1823555-04	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1823555-04	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1823555-04	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-2	1823555-04	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1823555-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823555

Analytical 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	1823555-04	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1823555-04	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1823555-04	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-2	1823555-04	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1823555-04	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1823555-04	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1823555-04	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1823555-04	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1823555-04	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-24-2	1823555-04	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1823555-04	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1823555-04	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1823555-03	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
MW-24-3	1823555-03	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
MW-24-3	1823555-03	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-24-3	1823555-03	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L

SDG: 1823555

Analytical 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	1823555-03	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L
MW-24-3	1823555-03	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-24-3	1823555-03	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
MW-24-3	1823555-03	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
MW-24-3	1823555-03	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-3	1823555-03	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
MW-24-3	1823555-03	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
MW-24-3	1823555-03	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
MW-24-3	1823555-03	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
MW-24-3	1823555-03	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-3	1823555-03	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
MW-24-3	1823555-03	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1823555-03	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1823555-03	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1823555-03	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1823555-03	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1823555-03	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
MW-24-3	1823555-03	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1823555-03	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-3	1823555-03	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
MW-24-3	1823555-03	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1823555

Analytical 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	1823555-03	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1823555-03	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1823555-03	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1823555-03	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1823555-03	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1823555-03	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-24-3	1823555-03	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-3	1823555-03	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1823555-03	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1823555-03	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1823555-03	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
MW-24-3	1823555-03	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
MW-24-3	1823555-03	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
MW-24-3	1823555-03	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
MW-24-3	1823555-03	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
MW-24-3	1823555-03	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
MW-24-3	1823555-03	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1823555-03	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1823555-03	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1823555-03	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823555

Analytical 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	1823555-03	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1823555-03	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1823555-03	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1823555-03	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1823555-03	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1823555-03	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1823555-03	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1823555-03	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1823555-03	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1823555-03	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1823555-03	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-24-3	1823555-03	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1823555-03	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1823555-03	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1823555-03	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1823555-03	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1823555-03	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
MW-24-3	1823555-03	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
MW-24-3	1823555-03	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
MW-24-3	1823555-03	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1823555-03	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823555

Analytical 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	1823555-03	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1823555-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1823555-03	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
MW-24-3	1823555-03	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1823555-03	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1823555-03	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1823555-03	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1823555-03	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
SB-2-073018	1823555-11	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-073018	1823555-11	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L
SB-2-073018	1823555-11	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
SB-2-073018	1823555-11	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
SB-2-073018	1823555-11	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L
SB-2-073018	1823555-11	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
SB-2-073018	1823555-11	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
SB-2-073018	1823555-11	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-073018	1823555-11	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
SB-2-073018	1823555-11	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-073018	1823555-11	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-073018	1823555-11	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L
SB-2-073018	1823555-11	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-073018	1823555-11	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-073018	1823555-11	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-073018	1823555-11	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1823555

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-2-073018	1823555-11	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-073018	1823555-11	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-073018	1823555-11	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
SB-2-073018	1823555-11	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L
SB-2-073018	1823555-11	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-073018	1823555-11	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-073018	1823555-11	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-073018	1823555-11	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-073018	1823555-11	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
SB-2-073018	1823555-11	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
SB-2-073018	1823555-11	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
SB-2-073018	1823555-11	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L
SB-2-073018	1823555-11	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
SB-2-073018	1823555-11	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-073018	1823555-11	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
SB-2-073018	1823555-11	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L
SB-2-073018	1823555-11	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L
SB-2-073018	1823555-11	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-2-073018	1823555-11	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L

SDG: 1823555

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-2-073018	1823555-11	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L
SB-2-073018	1823555-11	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-2-073018	1823555-11	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
SB-2-073018	1823555-11	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-073018	1823555-11	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-073018	1823555-11	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-073018	1823555-11	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L
SB-2-073018	1823555-11	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L
SB-2-073018	1823555-11	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-073018	1823555-11	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-073018	1823555-11	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-073018	1823555-11	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-073018	1823555-11	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L
SB-2-073018	1823555-11	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-073018	1823555-11	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-073018	1823555-11	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L
SB-2-073018	1823555-11	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-073018	1823555-11	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-073018	1823555-11	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-073018	1823555-11	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-073018	1823555-11	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823555

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-2-073018	1823555-11	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-073018	1823555-11	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-073018	1823555-11	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-073018	1823555-11	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-073018	1823555-11	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-073018	1823555-11	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
SB-2-073018	1823555-11	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-073018	1823555-11	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-073018	1823555-11	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-073018	1823555-11	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-073018	1823555-11	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-073018	1823555-11	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-073018	1823555-11	Acetone	8/3/2018	10	Y	n	u		10	6.6	ug/L
SB-2-073018	1823555-11	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-073018	1823555-11	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L
TB-5-073018	1823555-01	1,1-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-073018	1823555-01	cis-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	1,1-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-073018	1823555-01	trans-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-073018	1823555-01	1,3-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823555

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-5-073018	1823555-01	cis-1,2-Dichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-073018	1823555-01	1,2-Dichloropropane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-073018	1823555-01	trans-1,3-Dichloropropene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-073018	1823555-01	Bromomethane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-5-073018	1823555-01	Ethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-073018	1823555-01	Hexachlorobutadiene	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-073018	1823555-01	Isopropylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	p-Isopropyltoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	Methylene chloride	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-073018	1823555-01	1,2-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-073018	1823555-01	Naphthalene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-5-073018	1823555-01	Chloromethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-073018	1823555-01	n-Propylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-5-073018	1823555-01	Styrene	8/3/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-5-073018	1823555-01	1,1,1,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-073018	1823555-01	1,1,2,2-Tetrachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-073018	1823555-01	Tetrachloroethene	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-5-073018	1823555-01	Methyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	Chloroethane	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-073018	1823555-01	Bromobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-073018	1823555-01	Bromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-5-073018	1823555-01	Bromodichloromethane	8/3/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-5-073018	1823555-01	Bromoform	8/3/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-5-073018	1823555-01	2,2-Dichloropropane	8/3/2018	0.5	Y	n	u	UJ	0.50	0.18	ug/L
TB-5-073018	1823555-01	n-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823555

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-5-073018	1823555-01	Hexachloroethane	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-5-073018	1823555-01	Toluene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-073018	1823555-01	sec-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-5-073018	1823555-01	tert-Butylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-5-073018	1823555-01	4-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-5-073018	1823555-01	Chlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	1,1-Dichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-073018	1823555-01	Chloroform	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	2-Chlorotoluene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-5-073018	1823555-01	Dibromochloromethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-5-073018	1823555-01	1,2-Dibromo-3-chloropropane	8/3/2018	1	Y	n	u		1.0	0.89	ug/L
TB-5-073018	1823555-01	1,2-Dibromoethane	8/3/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-5-073018	1823555-01	Dibromomethane	8/3/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-5-073018	1823555-01	1,2-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-5-073018	1823555-01	1,3-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-5-073018	1823555-01	1,4-Dichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-073018	1823555-01	Dichlorodifluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-5-073018	1823555-01	Carbon tetrachloride	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-5-073018	1823555-01	p- & m-Xylenes	8/3/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-5-073018	1823555-01	2-Hexanone	8/3/2018	10	Y	n	u		10	5.0	ug/L
TB-5-073018	1823555-01	Methacrylonitrile	8/3/2018	10	Y	n	u		10	2.3	ug/L
TB-5-073018	1823555-01	1,2,3-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-073018	1823555-01	Methyl iodide	8/3/2018	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-5-073018	1823555-01	Ethyl methacrylate	8/3/2018	4	Y	n	u		4.0	1.3	ug/L
TB-5-073018	1823555-01	Methyl methacrylate	8/3/2018	5	Y	n	u		5.0	1.2	ug/L

SDG: 1823555

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-5-073018	1823555-01	Pentachloroethane	8/3/2018	2	Y	n	u	UJ	2.0	0.63	ug/L	
TB-5-073018	1823555-01	Ethyl t-butyl ether	8/3/2018	0.5	Y	n	u		0.50	0.32	ug/L	
TB-5-073018	1823555-01	Tetrahydrofuran	8/3/2018	20	Y	n	u		20	5.2	ug/L	
TB-5-073018	1823555-01	Methyl ethyl ketone	8/3/2018	10	Y	n	u		10	3.3	ug/L	
TB-5-073018	1823555-01	o-Xylene	8/3/2018	0.5	Y	n	u		0.50	0.13	ug/L	
TB-5-073018	1823555-01	Chloroacetonitrile	8/3/2018	0	Y	y	v				ug/L	
TB-5-073018	1823555-01	1-Chlorobutane	8/3/2018	0	Y	y	v				ug/L	
TB-5-073018	1823555-01	1,1-Dichloropropanone	8/3/2018	0	Y	y	v				ug/L	
TB-5-073018	1823555-01	Methyl acrylate	8/3/2018	0	Y	y	v				ug/L	
TB-5-073018	1823555-01	Nitrobenzene	8/3/2018	0	Y	y	v				ug/L	
TB-5-073018	1823555-01	2-Nitropropane	8/3/2018	0	Y	y	v				ug/L	
TB-5-073018	1823555-01	Benzene	8/3/2018	0.5	Y	n	u		0.50	0.11	ug/L	
TB-5-073018	1823555-01	Propionitrile	8/3/2018	20	Y	n	u		20	6.2	ug/L	
TB-5-073018	1823555-01	1,2,3-Trichloropropane	8/3/2018	1	Y	n	u		1.0	0.78	ug/L	
TB-5-073018	1823555-01	1,2,4-Trichlorobenzene	8/3/2018	0.5	Y	n	u		0.50	0.15	ug/L	
TB-5-073018	1823555-01	1,1,1-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L	
TB-5-073018	1823555-01	1,1,2-Trichloroethane	8/3/2018	0.5	Y	n	u		0.50	0.21	ug/L	
TB-5-073018	1823555-01	Methyl isobutyl ketone	8/3/2018	10	Y	n	u		10	2.4	ug/L	
TB-5-073018	1823555-01	Trichlorofluoromethane	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L	
TB-5-073018	1823555-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L	
TB-5-073018	1823555-01	1,2,4-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.17	ug/L	
TB-5-073018	1823555-01	1,3,5-Trimethylbenzene	8/3/2018	0.5	Y	n	u		0.50	0.14	ug/L	
TB-5-073018	1823555-01	trans-1,4-Dichloro-2-butene	8/3/2018	5	Y	n	u		5.0	1.8	ug/L	
TB-5-073018	1823555-01	Trichloroethene	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L	
TB-5-073018	1823555-01	Vinyl chloride	8/3/2018	0.5	Y	n	u		0.50	0.18	ug/L	

SDG: 1823555

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-5-073018	1823555-01	Diethyl ether	8/3/2018	2	Y	n	u		2.0	0.33	ug/L
TB-5-073018	1823555-01	Carbon disulfide	8/3/2018	1	Y	n	u		1.0	0.48	ug/L
TB-5-073018	1823555-01	t-Butyl alcohol	8/3/2018	10	Y	n	u		10	9.4	ug/L
TB-5-073018	1823555-01	t-Amyl Methyl ether	8/3/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-5-073018	1823555-01	Allyl chloride	8/3/2018	5	Y	n	u		5.0	0.47	ug/L
TB-5-073018	1823555-01	Acrylonitrile	8/3/2018	5	Y	n	u		5.0	1.5	ug/L
TB-5-073018	1823555-01	Acetone	8/3/2018	10	Y	n	u		10	6.6	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-3-3Q18	1823555-06	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
EB-5-073018	1823555-10	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-2	1823555-09	Hexavalent Chromium	7/31/2018	0.0007	Y	y	v j		0.0020	0.0007	mg/L
MW-17-3	1823555-08	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-17-4	1823555-07	Hexavalent Chromium	7/30/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-24-1	1823555-05	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-2	1823555-04	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-3	1823555-03	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-24-4	1823555-02	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
SB-2-073018	1823555-11	Hexavalent Chromium	7/30/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 24, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823982

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-8-080218	1823982-01	Water	08/02/18
MW-5	1823982-02	Water	08/02/18
DUP-5-3Q18	1823982-03	Water	08/02/18
MW-6	1823982-05	Water	08/02/18
DUP-6-3Q18	1823982-06	Water	08/02/18
MW-8	1823982-07	Water	08/02/18
DUP-7-3Q18	1823982-08	Water	08/02/18
MW-10**	1823982-09**	Water	08/02/18
MW-16	1823982-10	Water	08/02/18
MW-7	1823982-11	Water	08/02/18
MW-5MS	1823982-02MS	Water	08/02/18
MW-5MSD	1823982-02MSD	Water	08/02/18

**Indicates sample underwent Level IV review

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

Average relative response factors (RRF) for all compounds were within validation criteria.

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.

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-8-080218 was identified as a trip 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-5 and DUP-5-3Q18, samples MW-6 and DUP-6-3Q18, and samples MW-8 and DUP-7-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-6	DUP-6-3Q18	
Chloroform	0.55	0.61	10
Tetrachloroethene	0.44	0.48	9
Trichloroethene	2.3	2.1	9

Compound	Concentration (ug/L)		RPD
	MW-8	DUP-7-3Q18	
Trichlorofluoromethane	0.27	0.27	0

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.

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, 3Q2018
Volatiles - Data Qualification Summary - SDG 1823982

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1823982

No Sample Data Qualified in this SDG

LDC #: 43076B1

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1823982

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 9/24/18

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	ICV ≤ 20%. ICV ≤ 30%
IV.	Continuing calibration	A	CV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1.
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	MW	D = 2+3. 4+5. 6+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-8-080218	1823982-01	Water	08/02/18
2	MW-5	1823982-02	Water	08/02/18
3	DUP-5-3Q18	1823982-03	Water	08/02/18
4	MW-6	1823982-05	Water	08/02/18
5	DUP-6-3Q18	1823982-06	Water	08/02/18
6	MW-8	1823982-07	Water	08/02/18
7	DUP-7-3Q18	1823982-08	Water	08/02/18
8	MW-10**	1823982-09**	Water	08/02/18
9	MW-16	1823982-10	Water	08/02/18
10	MW-7	1823982-11	Water	08/02/18
11	MW-5MS	1823982-02MS	Water	08/02/18
12	MW-5MSD	1823982-02MSD	Water	08/02/18
13				

Method: Volatiles (EPA Method 524.2)

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

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
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# 43076B1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: GCMS VOA (EPA Method 524.2)

Compound	Concentration (ug/L)		RPD
	4	5	
K	0.55	0.61	10
AA	0.44	0.48	9
S	2.3	2.1	9

Compound	Concentration (ug/L)		RPD
	6	7	
KK	0.27	0.27	0

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2018\43076B1_JPL.wpd

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

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)	8/6/18	K (1st internal standard)	0.7640847	0.7640846	0.7482839	0.7482839	5.859612	5.8596
			S (2nd internal standard)	0.3506781	0.3506781	0.3455764	0.3455764	4.952688	4.9527
			EE (3rd internal standard)	1.94488	1.94488	1.887339	1.887339	8.252377	8.2524
			(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 = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

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	07AUG03	8/7/18	K (1st internal standard)	0.7482839	0.7575038	0.7575038	1.2	1.2
			S (2nd internal standard)	0.3455764	0.3310147	0.3310147	4.2	4.2
			EE (3rd internal standard)	1.887339	1.891053	1.891053	0.2	0.2
			HHH (4th internal standard)					
2			V (1st internal standard)					
			CC (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 #: 4307621

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 8

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	10.17	102	102	0
Bromofluorobenzene	↓	10.19	102	102	
1,2-Dichlorobenzene-d4 <u>(1,2-DCED)</u>	↓	9.92	99.2	99.2	↓
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: 11/12

Compound	Spike Added		Sample Concentration	Spiked Sample Concentration		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	25.000	25.000	ND	28.140	28.050	113	113	112	112	0.320	0.320
Trichloroethene	↓	↓	↓	26.990	25.930	108	108	104	104	4.01	4.01
Benzene	↓	↓	↓	28.880	28.520	112	112	114	114	2.27	2.27
Toluene	↓	↓	↓	26.120	26.060	106	106	104	104	1.37	1.37
Chlorobenzene	↓	↓	↓	26.160	26.240	105	105	106	106	1.44	1.44

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:

% 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: B0209A-BS1

Compound	Spike Added (<u>174</u>)		Spiked Sample Concentration (<u>174</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>28.530</u>	<u>NA</u>	<u>114</u>	<u>114</u>				
Trichloroethene			<u>27.340</u>		<u>109</u>	<u>109</u>				
Benzene			<u>28.350</u>		<u>113</u>	<u>113</u>				
Toluene			<u>26.170</u>		<u>106</u>	<u>106</u>				
Chlorobenzene			<u>24.980</u>		<u>99.9</u>	<u>99.9</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, 3Q2018

LDC Report Date: September 19, 2018

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823982

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-5	1823982-02	Water	08/02/18
DUP-5-3Q18	1823982-03	Water	08/02/18
MW-15	1823982-04	Water	08/02/18
MW-6	1823982-05	Water	08/02/18
DUP-6-3Q18	1823982-06	Water	08/02/18
MW-8	1823982-07	Water	08/02/18
DUP-7-3Q18	1823982-08	Water	08/02/18
MW-10**	1823982-09**	Water	08/02/18
MW-7	1823982-11	Water	08/02/18
MW-15MS	1823982-04MS	Water	08/02/18
MW-15MSD	1823982-04MSD	Water	08/02/18
MW-15DUP	1823982-04DUP	Water	08/02/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following method:

Chromium by Environmental Protection Agency (EPA) Method 200.8

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

ICP interference check sample analysis data were not required by the method.

V. Laboratory Blanks

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

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	1.0070 ug/L	All samples in SDG 1823982

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-5	Chromium	1.6 ug/L	1.6U ug/L
DUP-5-3Q18	Chromium	1.4 ug/L	1.4U ug/L
MW-15	Chromium	3.5 ug/L	3.5U ug/L

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-5 and DUP-5-3Q18, samples MW-6 and DUP-6-3Q18, and samples MW-8 and DUP-7-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-5	DUP-5-3Q18	
Chromium	1.6	1.4	13

Analyte	Concentration (ug/L)		RPD
	MW-6	DUP-6-3Q18	
Chromium	56	54	4

Analyte	Concentration (ug/L)		RPD
	MW-8	DUP-7-3Q18	
Chromium	7.3	5.3	32

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2018
Chromium - Data Qualification Summary - SDG 1823982

No Sample Data Qualified in this SDG

NASA JPL, 3Q2018
Chromium - Laboratory Blank Data Qualification Summary - SDG 1823982

Sample	Analyte	Modified Final Concentration	A or P
MW-5	Chromium	1.6U ug/L	A
DUP-5-3Q18	Chromium	1.4U ug/L	A
MW-15	Chromium	3.5U ug/L	A

LDC #: 43076B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/18/18

SDG #: 1823982

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *AK*2nd Reviewer: *AK*

METHOD: Metals (EPA Method 200.8)

Cr

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	N	
VII.	Matrix Spike/Matrix Spike Duplicates	A	(10,11)
VIII.	Duplicate sample analysis	A	12
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	ICS
XI.	Field Duplicates	SW	(1,2), (4,5), (6,7)
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV validation 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 = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-5	1823982-02	Water	08/02/18
2	DUP-5-3Q18	1823982-03	Water	08/02/18
3	MW-15	1823982-04	Water	08/02/18
4*	MW-6	1823982-05	Water	08/02/18
5*	DUP-6-3Q18	1823982-06	Water	08/02/18
6	MW-8	1823982-07	Water	08/02/18
7	DUP-7-3Q18	1823982-08	Water	08/02/18
8	MW-10**	1823982-09**	Water	08/02/18
9	MW-7	1823982-11	Water	08/02/18
10	MW-15MS	1823982-04MS	Water	08/02/18
11	MW-15MSD	1823982-04MSD	Water	08/02/18
12	MW-15DUP	1823982-04DUP	Water	08/02/18
13				

Notes: _____

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

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

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

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: NA
 Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	1	2	3						
Cr		1.0070		5.035	1.6	1.4	3.5						

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.

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: Metals (EPA Method 6010B/6020/7000/200.8)

Analyte	Concentration (ug/L)		RPD	
	1	2		
Chromium	1.6	1.4	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2018\43076B4a.wpd

Analyte	Concentration (ug/L)		RPD	
	4	5		
Chromium	56	54	4	

Analyte	Concentration (ug/L)		RPD	
	6	7		
Chromium	7.3	5.3	32	

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 8/9 @ 10:57	Cr	51.849	50.000	104	104	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVH	ICP/MS (Continuing calibration) 8/10 @ 02:02	Cr	42.264	40.000	106	106	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	102905	102,925	± 0.1 AMU	NA	Y
	%RSD	114.9	383528.4	≤ 5% RSD	0.2	Y

Comments:

LDC #: 43076B4a

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 8/10 @ 01:28	CR	44.670	40.000	112	112	Y
10	Matrix spike 8/10 @ 01:45	CR	(SSR-SR) 42.931	40.000	107	107	Y
10 11	Duplicate 8/10 @ 01:48	CR	43.860	46.431	5.69	5.69	Y
3	Post digestion spike 8/10 @ 01:52	CR	41.473	40.000	104	104	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2018

LDC Report Date: September 19, 2018

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1823982

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-5	1823982-02	Water	08/02/18
DUP-5-3Q18	1823982-03	Water	08/02/18
MW-15	1823982-04	Water	08/02/18
MW-6	1823982-05	Water	08/02/18
DUP-6-3Q18	1823982-06	Water	08/02/18
MW-8	1823982-07	Water	08/02/18
DUP-7-3Q18	1823982-08	Water	08/02/18
MW-10**	1823982-09**	Water	08/02/18
MW-16	1823982-10	Water	08/02/18
MW-7	1823982-11	Water	08/02/18
MW-15MS	1823982-04MS	Water	08/02/18
MW-15MSD	1823982-04MSD	Water	08/02/18
MW-15DUP	1823982-04DUP	Water	08/02/18
MW-8MS	1823982-07MS	Water	08/02/18
MW-8MSD	1823982-07MSD	Water	08/02/18
MW-8DUP	1823982-07DUP	Water	08/02/18

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Perchlorate by EPA Method 314.0

Chloride, Sulfate, and Nitrate as Nitrogen by EPA Method 300.0

Nitrite as Nitrogen by EPA method 353.2

Ortho-Phosphate as Phosphorous by EPA Method 365.1

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.

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
PB (prep blank)	Nitrite as N	0.011851 mg/L	MW-8 MW-16 MW-7
ICB/CCB	Nitrite as N	0.011607 mg/L	MW-8 MW-16 MW-7

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-8	Nitrite as N	0.012 mg/L	0.012U mg/L
MW-16	Nitrite as N	0.017 mg/L	0.017U mg/L
MW-7	Nitrite as N	0.012 mg/L	0.012U mg/L

V. Field Blanks

No field blanks were identified in this SDG.

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 with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-123-13MS/MSD (MW-5 DUP-5-3Q18 MW-6 DUP-6-3Q18 MW-8 DUP-7-3Q18 MW-10** MW-16 MW-7)	Perchlorate	69.6 (80-120)	71.8 (80-120)	J (all detects) UJ (all non-detects)	A

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-5 and DUP-5-3Q18MW-6, and DUP-6-3Q18 and samples MW-8 and DUP-7-3Q18 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-6	DUP-6-3Q18	
Hexavalent chromium	0.0011 mg/L	0.0013 mg/L	17
Perchlorate	3.1 ug/L	0.58U ug/L	137

Analyte	Concentration		RPD
	MW-8	DUP-7-3Q18	
Hexavalent chromium	0.00088 mg/L	0.00082 mg/L	7

Analyte	Concentration		RPD
	MW-8	DUP-7-3Q18	
Perchlorate	3.9 ug/L	4.2 ug/L	7

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to MS/MSD %R, data were qualified as estimated in nine 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, 3Q2018
Wet Chemistry - Data Qualification Summary - SDG 1823982**

Sample	Analyte	Flag	A or P	Reason
MW-5 DUP-5-3Q18 MW-6 DUP-6-3Q18 MW-8 DUP-7-3Q18 MW-10** MW-16 MW-7	Perchlorate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

**NASA JPL, 3Q2018
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1823982**

Sample	Analyte	Modified Final Concentration	A or P
MW-8	Nitrite as N	0.012U mg/L	A
MW-16	Nitrite as N	0.017U mg/L	A
MW-7	Nitrite as N	0.012U mg/L	A

LDC #: 43076B6
 SDG #: 1823982
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 9/18/18
 Page: 1 of 1
 Reviewer: *ATC*
 2nd Reviewer: *[Signature]*

METHOD: (Analyte) Hexavalent Chromium (EPA SW846 Method 7196), Perchlorate (EPA Method 314.0), Chloride, Sulfate, Nitrate as N (EPA Method 300.0), Nitrate as N (EPA Method 353.2), ortho-Phosphate as P (PEA method 365.1)

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, A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	SW	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	SW	From SDG # 1823821 (MW-12-3 MS/MSD), (11,12), (14,15)
VII.	Duplicate sample analysis	A	13,16
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(1,2), (4,5), (6,7)
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-5	1823982-02	Water	08/02/18
2	DUP-5-3Q18	1823982-03	Water	08/02/18
3	MW-15	1823982-04	Water	08/02/18
4	MW-6	1823982-05	Water	08/02/18
5	DUP-6-3Q18	1823982-06	Water	08/02/18
6	MW-8	1823982-07	Water	08/02/18
7	DUP-7-3Q18	1823982-08	Water	08/02/18
8	MW-10**	1823982-09**	Water	08/02/18
9	MW-16	1823982-10	Water	08/02/18
10	MW-7	1823982-11	Water	08/02/18
11	MW-15MS	1823982-04MS	Water	08/02/18
12	MW-15MSD	1823982-04MSD	Water	08/02/18
13	MW-15DUP	1823982-04DUP	Water	08/02/18
14	MW-8MS	1823982-07MS	Water	08/02/18
15	MW-8MSD	1823982-07MSD	Water	08/02/18
16	MW-8DUP	1823982-07DUP	Water	08/02/18
17				

Method: Inorganics (EPA Method See cover)

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

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

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 6,9,10

Analyte	Blank ID	Blank ID	Blank Action Limit												
				6	9	10									
	PB	ICB/CCB (mg/L)													
NO2-N	0.011851		0.059255	0.012	0.017	0.012									
NO2-N		0.011607	0.058035	see above	see above	see above									

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".

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Inorganics: Method See Cover

Analyte	Concentration		RPD	
	4	5		
Hexavalent Chromium (mg/L)	0.0011	0.0013	17	
Perchlorate (ug/L)	3.1	0.58 U	137	

Analyte	Concentration		RPD	
	6	7		
Hexavalent Chromium (mg/L)	0.00088	0.00082	7	
Perchlorate (ug/L)	3.9	4.2	7	

LDC #: 43076B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄⁻ was recalculated. Calibration date: 08/14/18

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

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

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

Type of analysis	Analyte	Standard	Conc. (ug/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	ClO ₄ ⁻	s1	2	0.0022	0.9966	0.9969	Y
		s2	4	0.0043			
		s3	6	0.0066			
		s4	10	0.0121			
		s5	20	0.0222			
CCV ₆ (8/19 @ 22:29) Calibration verification	ClO ₄ ⁻	FOUND 9.755	TRUE 10.000		97.6	99.1	Y
CCV ₆ (8/2 @ 22:15) Calibration verification	Cr ₆₊	0.0515	0.0500		103	103	Y
CCV ₇ (8/2 @ 22:17) Calibration verification	Cr ₆₊	0.0515	0.0500		103	103	Y

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

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	ClO ₄ ⁻	8.868 mg/L	10.000 mg/L	88.7	92.7	Y
11	Matrix spike sample	Cr6+	(SSR-SR) 0.054211 mg/L	mg/L 0.052632	103	103	Y
11/12	Duplicate sample	Cr6+	mg/L 0.054211	mg/L 0.054366	0.286	0.311	Y

Comments: _____

LDC# 43076 - NASA JPL, 3Q2018

SDG: 1823982

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-5-3Q18	1823982-03	Total Recoverable Chromium	8/10/2018	1.4	Y	y	v j	U	3.0	0.50	ug/L
DUP-6-3Q18	1823982-06	Total Recoverable Chromium	8/10/2018	52	Y	y	v		3.0	0.50	ug/L
DUP-7-3Q18	1823982-08	Total Recoverable Chromium	8/10/2018	5.3	Y	y	v		3.0	0.50	ug/L
MW-10	1823982-09	Total Recoverable Chromium	8/10/2018	18	Y	y	v		3.0	0.50	ug/L
MW-15	1823982-04	Total Recoverable Chromium	8/10/2018	3.5	Y	y	v	U	3.0	0.50	ug/L
MW-5	1823982-02	Total Recoverable Chromium	8/10/2018	1.6	Y	y	v j	U	3.0	0.50	ug/L
MW-6	1823982-05	Total Recoverable Chromium	8/10/2018	24	Y	y	v		3.0	0.50	ug/L
MW-7	1823982-11	Total Recoverable Chromium	8/10/2018	670	Y	y	v		3.0	0.50	ug/L
MW-8	1823982-07	Total Recoverable Chromium	8/10/2018	7.3	Y	y	v		3.0	0.50	ug/L

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-16	1823982-10	Nitrate as N	8/3/2018	1.5	Y	y	v		0.10	0.021	mg/L
MW-16	1823982-10	Chloride	8/3/2018	96	Y	y	v		0.50	0.077	mg/L
MW-16	1823982-10	Sulfate	8/3/2018	53	Y	y	v		1.0	0.13	mg/L
MW-7	1823982-11	Nitrate as N	8/3/2018	1.4	Y	y	v		0.10	0.021	mg/L
MW-7	1823982-11	Sulfate	8/3/2018	52	Y	y	v		1.0	0.13	mg/L
MW-7	1823982-11	Chloride	8/3/2018	94	Y	y	v		0.50	0.077	mg/L
MW-8	1823982-07	Nitrate as N	8/3/2018	2.2	Y	y	v		0.10	0.021	mg/L
MW-8	1823982-07	Chloride	8/3/2018	19	Y	y	v		0.50	0.077	mg/L
MW-8	1823982-07	Sulfate	8/3/2018	44	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-5-3Q18	1823982-03	Perchlorate	8/19/2018	4	Y	n	u	UJ	4.0	0.58	ug/L

SDG: 1823982

Analytical Method		EPA-314.0										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-6-3Q18	1823982-06	Perchlorate	8/19/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
DUP-7-3Q18	1823982-08	Perchlorate	8/20/2018	4.2	Y	y	v	J	4.0	0.58	ug/L	
MW-10	1823982-09	Perchlorate	8/19/2018	3.1	Y	y	v j	J	4.0	0.58	ug/L	
MW-16	1823982-10	Perchlorate	8/20/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-5	1823982-02	Perchlorate	8/19/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-6	1823982-05	Perchlorate	8/19/2018	3.1	Y	y	v j	J	4.0	0.58	ug/L	
MW-7	1823982-11	Perchlorate	8/20/2018	4	Y	n	u	UJ	4.0	0.58	ug/L	
MW-8	1823982-07	Perchlorate	8/20/2018	3.9	Y	y	v j	J	4.0	0.58	ug/L	

Analytical Method		EPA-353.2										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
MW-16	1823982-10	Nitrite as N	8/3/2018	0.017	Y	y	v j	U	0.050	0.010	mg/L	
MW-7	1823982-11	Nitrite as N	8/3/2018	0.012	Y	y	v j	U	0.050	0.010	mg/L	
MW-8	1823982-07	Nitrite as N	8/3/2018	0.012	Y	y	v j	U	0.050	0.010	mg/L	

Analytical Method		EPA-365.1										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
MW-16	1823982-10	ortho-Phosphate as P	8/3/2018	0.15	Y	y	v		0.050	0.017	mg/L	
MW-7	1823982-11	ortho-Phosphate as P	8/3/2018	0.073	Y	y	v		0.050	0.017	mg/L	
MW-8	1823982-07	ortho-Phosphate as P	8/3/2018	0.05	Y	n	u		0.050	0.017	mg/L	

Analytical Method		EPA-524.2										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units	
DUP-5-3Q18	1823982-03	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L	
DUP-5-3Q18	1823982-03	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L	
DUP-5-3Q18	1823982-03	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L	
DUP-5-3Q18	1823982-03	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L	

SDG: 1823982

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-5-3Q18	1823982-03	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q18	1823982-03	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-5-3Q18	1823982-03	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q18	1823982-03	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-5-3Q18	1823982-03	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q18	1823982-03	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q18	1823982-03	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
DUP-5-3Q18	1823982-03	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
DUP-5-3Q18	1823982-03	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-5-3Q18	1823982-03	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
DUP-5-3Q18	1823982-03	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
DUP-5-3Q18	1823982-03	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
DUP-5-3Q18	1823982-03	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-5-3Q18	1823982-03	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
DUP-5-3Q18	1823982-03	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
DUP-5-3Q18	1823982-03	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
DUP-5-3Q18	1823982-03	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
DUP-5-3Q18	1823982-03	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
DUP-5-3Q18	1823982-03	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
DUP-5-3Q18	1823982-03	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
DUP-5-3Q18	1823982-03	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
DUP-5-3Q18	1823982-03	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-5-3Q18	1823982-03	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q18	1823982-03	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823982

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-5-3Q18	1823982-03	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-3Q18	1823982-03	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-3Q18	1823982-03	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-5-3Q18	1823982-03	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q18	1823982-03	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
DUP-5-3Q18	1823982-03	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
DUP-5-3Q18	1823982-03	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
DUP-5-3Q18	1823982-03	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-5-3Q18	1823982-03	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-5-3Q18	1823982-03	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-5-3Q18	1823982-03	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-5-3Q18	1823982-03	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-3Q18	1823982-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q18	1823982-03	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q18	1823982-03	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q18	1823982-03	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-3Q18	1823982-03	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q18	1823982-03	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-5-3Q18	1823982-03	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-3Q18	1823982-03	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-5-3Q18	1823982-03	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-3Q18	1823982-03	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-5-3Q18	1823982-03	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823982

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-5-3Q18	1823982-03	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	Chloroform	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q18	1823982-03	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q18	1823982-03	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q18	1823982-03	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q18	1823982-03	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-3Q18	1823982-03	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-3Q18	1823982-03	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q18	1823982-03	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-5-3Q18	1823982-03	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-3Q18	1823982-03	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-3Q18	1823982-03	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-3Q18	1823982-03	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-3Q18	1823982-03	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q18	1823982-03	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-3Q18	1823982-03	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q18	1823982-03	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-3Q18	1823982-03	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q18	1823982-03	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q18	1823982-03	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-3Q18	1823982-03	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q18	1823982-03	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1823982

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-5-3Q18	1823982-03	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-3Q18	1823982-03	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q18	1823982-03	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-3Q18	1823982-03	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q18	1823982-03	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-3Q18	1823982-03	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q18	1823982-03	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q18	1823982-03	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q18	1823982-06	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-3Q18	1823982-06	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
DUP-6-3Q18	1823982-06	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q18	1823982-06	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
DUP-6-3Q18	1823982-06	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q18	1823982-06	Trichloroethene	8/7/2018	2.1	Y	y	v		0.50	0.19	ug/L
DUP-6-3Q18	1823982-06	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-3Q18	1823982-06	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-6-3Q18	1823982-06	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q18	1823982-06	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-3Q18	1823982-06	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823982

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-6-3Q18	1823982-06	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-6-3Q18	1823982-06	Chloroform	8/7/2018	0.61	Y	y	v		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-3Q18	1823982-06	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-6-3Q18	1823982-06	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
DUP-6-3Q18	1823982-06	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
DUP-6-3Q18	1823982-06	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-6-3Q18	1823982-06	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-6-3Q18	1823982-06	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
DUP-6-3Q18	1823982-06	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
DUP-6-3Q18	1823982-06	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-3Q18	1823982-06	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-6-3Q18	1823982-06	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-6-3Q18	1823982-06	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-6-3Q18	1823982-06	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-6-3Q18	1823982-06	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-6-3Q18	1823982-06	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
DUP-6-3Q18	1823982-06	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q18	1823982-06	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-3Q18	1823982-06	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
DUP-6-3Q18	1823982-06	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
DUP-6-3Q18	1823982-06	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-3Q18	1823982-06	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823982

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-6-3Q18	1823982-06	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q18	1823982-06	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-6-3Q18	1823982-06	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-3Q18	1823982-06	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q18	1823982-06	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
DUP-6-3Q18	1823982-06	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
DUP-6-3Q18	1823982-06	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
DUP-6-3Q18	1823982-06	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
DUP-6-3Q18	1823982-06	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
DUP-6-3Q18	1823982-06	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
DUP-6-3Q18	1823982-06	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-3Q18	1823982-06	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-6-3Q18	1823982-06	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q18	1823982-06	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-3Q18	1823982-06	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-3Q18	1823982-06	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q18	1823982-06	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-3Q18	1823982-06	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-3Q18	1823982-06	Tetrachloroethene	8/7/2018	0.48	Y	y	v j		0.50	0.23	ug/L
DUP-6-3Q18	1823982-06	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823982

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-6-3Q18	1823982-06	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-6-3Q18	1823982-06	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-3Q18	1823982-06	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
DUP-6-3Q18	1823982-06	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q18	1823982-06	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-3Q18	1823982-06	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-3Q18	1823982-06	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q18	1823982-06	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q18	1823982-06	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q18	1823982-06	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-3Q18	1823982-06	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-3Q18	1823982-06	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q18	1823982-06	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q18	1823982-06	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q18	1823982-06	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-3Q18	1823982-08	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
DUP-7-3Q18	1823982-08	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
DUP-7-3Q18	1823982-08	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
DUP-7-3Q18	1823982-08	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
DUP-7-3Q18	1823982-08	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L

SDG: 1823982

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-7-3Q18	1823982-08	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
DUP-7-3Q18	1823982-08	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-7-3Q18	1823982-08	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
DUP-7-3Q18	1823982-08	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
DUP-7-3Q18	1823982-08	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
DUP-7-3Q18	1823982-08	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-3Q18	1823982-08	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
DUP-7-3Q18	1823982-08	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
DUP-7-3Q18	1823982-08	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
DUP-7-3Q18	1823982-08	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
DUP-7-3Q18	1823982-08	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-3Q18	1823982-08	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
DUP-7-3Q18	1823982-08	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
DUP-7-3Q18	1823982-08	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
DUP-7-3Q18	1823982-08	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
DUP-7-3Q18	1823982-08	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
DUP-7-3Q18	1823982-08	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
DUP-7-3Q18	1823982-08	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-3Q18	1823982-08	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-3Q18	1823982-08	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-3Q18	1823982-08	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-3Q18	1823982-08	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-3Q18	1823982-08	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823982

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-7-3Q18	1823982-08	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
DUP-7-3Q18	1823982-08	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-3Q18	1823982-08	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
DUP-7-3Q18	1823982-08	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
DUP-7-3Q18	1823982-08	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
DUP-7-3Q18	1823982-08	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-3Q18	1823982-08	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-3Q18	1823982-08	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-3Q18	1823982-08	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
DUP-7-3Q18	1823982-08	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
DUP-7-3Q18	1823982-08	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-3Q18	1823982-08	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
DUP-7-3Q18	1823982-08	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-3Q18	1823982-08	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-3Q18	1823982-08	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-3Q18	1823982-08	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-3Q18	1823982-08	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-3Q18	1823982-08	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
DUP-7-3Q18	1823982-08	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823982

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-7-3Q18	1823982-08	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
DUP-7-3Q18	1823982-08	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-3Q18	1823982-08	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-3Q18	1823982-08	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-3Q18	1823982-08	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-3Q18	1823982-08	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
DUP-7-3Q18	1823982-08	Chloroform	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-7-3Q18	1823982-08	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-3Q18	1823982-08	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-3Q18	1823982-08	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-3Q18	1823982-08	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
DUP-7-3Q18	1823982-08	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-3Q18	1823982-08	Trichlorofluoromethane	8/7/2018	0.27	Y	y	v j		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-3Q18	1823982-08	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-3Q18	1823982-08	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-3Q18	1823982-08	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-3Q18	1823982-08	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
DUP-7-3Q18	1823982-08	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
DUP-7-3Q18	1823982-08	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1823982

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-7-3Q18	1823982-08	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-3Q18	1823982-08	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-3Q18	1823982-08	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-7-3Q18	1823982-08	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
DUP-7-3Q18	1823982-08	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-3Q18	1823982-08	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-3Q18	1823982-08	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1823982-09	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1823982-09	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1823982-09	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1823982-09	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1823982-09	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1823982-09	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1823982-09	Tetrachloroethene	8/7/2018	0.31	Y	y	v j		0.50	0.23	ug/L
MW-10	1823982-09	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1823982-09	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1823982-09	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1823982-09	Trichloroethene	8/7/2018	2.3	Y	y	v		0.50	0.19	ug/L

SDG: 1823982

Analytical 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	1823982-09	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1823982-09	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1823982-09	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	Chloroform	8/7/2018	0.28	Y	y	v j		0.50	0.14	ug/L
MW-10	1823982-09	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
MW-10	1823982-09	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1823982-09	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1823982-09	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1823982-09	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1823982-09	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
MW-10	1823982-09	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1823982-09	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-10	1823982-09	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1823982-09	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1823982-09	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1823982-09	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1823982-09	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823982

Analytical 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	1823982-09	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1823982-09	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1823982-09	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1823982-09	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-10	1823982-09	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1823982-09	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1823982-09	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1823982-09	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1823982-09	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-10	1823982-09	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1823982-09	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1823982-09	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
MW-10	1823982-09	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
MW-10	1823982-09	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
MW-10	1823982-09	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
MW-10	1823982-09	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
MW-10	1823982-09	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
MW-10	1823982-09	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1823982-09	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-10	1823982-09	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
MW-10	1823982-09	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L

SDG: 1823982

Analytical 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	1823982-09	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
MW-10	1823982-09	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
MW-10	1823982-09	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
MW-10	1823982-09	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
MW-10	1823982-09	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
MW-10	1823982-09	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1823982-09	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
MW-10	1823982-09	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
MW-10	1823982-09	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
MW-10	1823982-09	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1823982-09	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
MW-10	1823982-09	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
MW-10	1823982-09	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
MW-10	1823982-09	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
MW-10	1823982-09	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
MW-10	1823982-09	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
MW-10	1823982-09	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-10	1823982-09	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1823982-09	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
MW-16	1823982-10	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1823982-10	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1823982-10	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1823982-10	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1823982-10	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823982

Analytical 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	1823982-10	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1823982-10	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1823982-10	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1823982-10	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1823982-10	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1823982-10	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1823982-10	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1823982-10	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-16	1823982-10	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1823982-10	Chloroform	8/7/2018	0.96	Y	y	v		0.50	0.14	ug/L
MW-16	1823982-10	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1823982-10	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1823982-10	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1823982-10	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1823982-10	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
MW-16	1823982-10	Bromodichloromethane	8/7/2018	0.5	Y	y	v		0.50	0.20	ug/L

SDG: 1823982

Analytical 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	1823982-10	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1823982-10	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1823982-10	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-16	1823982-10	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1823982-10	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
MW-16	1823982-10	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
MW-16	1823982-10	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
MW-16	1823982-10	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
MW-16	1823982-10	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
MW-16	1823982-10	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-16	1823982-10	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1823982-10	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
MW-16	1823982-10	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
MW-16	1823982-10	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
MW-16	1823982-10	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
MW-16	1823982-10	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
MW-16	1823982-10	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
MW-16	1823982-10	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
MW-16	1823982-10	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
MW-16	1823982-10	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-16	1823982-10	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1823982

Analytical 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	1823982-10	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
MW-16	1823982-10	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
MW-16	1823982-10	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
MW-16	1823982-10	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
MW-16	1823982-10	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
MW-16	1823982-10	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
MW-16	1823982-10	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1823982-10	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
MW-16	1823982-10	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1823982-10	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-16	1823982-10	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-16	1823982-10	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1823982-10	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1823982-10	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1823982-10	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1823982-10	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1823982-10	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
MW-16	1823982-10	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1823982-10	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
MW-16	1823982-10	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
MW-16	1823982-10	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1823982

Analytical 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	1823982-10	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1823982-10	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
MW-16	1823982-10	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1823982-10	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1823982-10	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1823982-02	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-5	1823982-02	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
MW-5	1823982-02	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
MW-5	1823982-02	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
MW-5	1823982-02	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
MW-5	1823982-02	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
MW-5	1823982-02	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1823982-02	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
MW-5	1823982-02	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
MW-5	1823982-02	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
MW-5	1823982-02	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
MW-5	1823982-02	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
MW-5	1823982-02	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
MW-5	1823982-02	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
MW-5	1823982-02	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-5	1823982-02	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
MW-5	1823982-02	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
MW-5	1823982-02	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
MW-5	1823982-02	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L

SDG: 1823982

Analytical 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	1823982-02	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
MW-5	1823982-02	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
MW-5	1823982-02	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1823982-02	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1823982-02	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1823982-02	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
MW-5	1823982-02	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1823982-02	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1823982-02	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1823982-02	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1823982-02	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1823982-02	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1823982-02	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1823982-02	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1823982-02	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1823982-02	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1823982

Analytical 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	1823982-02	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-5	1823982-02	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1823982-02	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1823982-02	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1823982-02	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-5	1823982-02	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	Chloroform	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1823982-02	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1823982-02	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1823982-02	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1823982-02	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1823982-02	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
MW-5	1823982-02	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
MW-5	1823982-02	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1823982-02	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
MW-5	1823982-02	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1823982-02	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L

SDG: 1823982

Analytical 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	1823982-02	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
MW-5	1823982-02	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
MW-5	1823982-02	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1823982-02	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1823982-02	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1823982-02	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1823982-02	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1823982-02	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1823982-02	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1823982-02	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1823982-02	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1823982-02	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1823982-02	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1823982-02	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1823982-02	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-6	1823982-05	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1823982-05	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
MW-6	1823982-05	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1823982-05	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-6	1823982-05	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
MW-6	1823982-05	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
MW-6	1823982-05	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L

SDG: 1823982

Analytical 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	1823982-05	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
MW-6	1823982-05	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
MW-6	1823982-05	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
MW-6	1823982-05	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
MW-6	1823982-05	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1823982-05	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
MW-6	1823982-05	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
MW-6	1823982-05	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
MW-6	1823982-05	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
MW-6	1823982-05	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
MW-6	1823982-05	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
MW-6	1823982-05	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
MW-6	1823982-05	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
MW-6	1823982-05	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-6	1823982-05	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
MW-6	1823982-05	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
MW-6	1823982-05	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
MW-6	1823982-05	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
MW-6	1823982-05	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
MW-6	1823982-05	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1823982-05	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
MW-6	1823982-05	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
MW-6	1823982-05	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	Trichloroethene	8/7/2018	2.3	Y	y	v		0.50	0.19	ug/L

SDG: 1823982

Analytical 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	1823982-05	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1823982-05	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1823982-05	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1823982-05	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1823982-05	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1823982-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1823982-05	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1823982-05	Tetrachloroethene	8/7/2018	0.44	Y	y	v j		0.50	0.23	ug/L
MW-6	1823982-05	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1823982-05	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1823982-05	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-6	1823982-05	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1823982-05	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1823982-05	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1823982-05	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
MW-6	1823982-05	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1823982

Analytical 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	1823982-05	Chloroform	8/7/2018	0.55	Y	y	v		0.50	0.14	ug/L
MW-6	1823982-05	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-6	1823982-05	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1823982-05	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
MW-6	1823982-05	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1823982-05	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-6	1823982-05	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1823982-05	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1823982-05	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1823982-05	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1823982-05	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1823982-05	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1823982-05	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1823982-05	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1823982-05	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1823982-05	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1823982-05	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1823982-05	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1823982

Analytical 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	1823982-05	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1823982-05	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1823982-05	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1823982-05	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1823982-11	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
MW-7	1823982-11	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
MW-7	1823982-11	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
MW-7	1823982-11	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
MW-7	1823982-11	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
MW-7	1823982-11	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1823982-11	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-7	1823982-11	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
MW-7	1823982-11	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
MW-7	1823982-11	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
MW-7	1823982-11	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
MW-7	1823982-11	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
MW-7	1823982-11	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
MW-7	1823982-11	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
MW-7	1823982-11	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-7	1823982-11	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
MW-7	1823982-11	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
MW-7	1823982-11	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
MW-7	1823982-11	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
MW-7	1823982-11	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L

SDG: 1823982

Analytical 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	1823982-11	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1823982-11	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
MW-7	1823982-11	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1823982-11	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1823982-11	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1823982-11	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1823982-11	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1823982-11	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1823982-11	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1823982-11	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1823982-11	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
MW-7	1823982-11	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
MW-7	1823982-11	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1823982-11	Chloroform	8/7/2018	3.2	Y	y	v		0.50	0.14	ug/L
MW-7	1823982-11	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1823982-11	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1823982

Analytical 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	1823982-11	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1823982-11	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-7	1823982-11	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1823982-11	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
MW-7	1823982-11	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1823982-11	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1823982-11	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1823982-11	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1823982-11	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1823982-11	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1823982-11	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1823982-11	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
MW-7	1823982-11	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1823982-11	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1823982-11	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1823982-11	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1823982-11	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
MW-7	1823982-11	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
MW-7	1823982-11	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
MW-7	1823982-11	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1823982-11	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823982

Analytical 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	1823982-11	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1823982-11	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
MW-7	1823982-11	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1823982-11	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1823982-11	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1823982-11	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1823982-11	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1823982-11	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1823982-11	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1823982-11	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1823982-11	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1823982-11	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1823982-11	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1823982-11	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1823982-11	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1823982-11	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1823982-11	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1823982-07	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
MW-8	1823982-07	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
MW-8	1823982-07	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1823982-07	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1823982-07	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1823982-07	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L

SDG: 1823982

Analytical 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	1823982-07	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
MW-8	1823982-07	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
MW-8	1823982-07	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1823982-07	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	Chloroform	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1823982-07	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
MW-8	1823982-07	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1823982-07	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1823982-07	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
MW-8	1823982-07	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
MW-8	1823982-07	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
MW-8	1823982-07	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
MW-8	1823982-07	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
MW-8	1823982-07	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
MW-8	1823982-07	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L
MW-8	1823982-07	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
MW-8	1823982-07	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1823982-07	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
MW-8	1823982-07	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
MW-8	1823982-07	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L

SDG: 1823982

Analytical 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	1823982-07	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
MW-8	1823982-07	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
MW-8	1823982-07	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1823982-07	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	ug/L
MW-8	1823982-07	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
MW-8	1823982-07	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
MW-8	1823982-07	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
MW-8	1823982-07	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1823982-07	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
MW-8	1823982-07	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
MW-8	1823982-07	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
MW-8	1823982-07	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1823982-07	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1823982-07	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1823982-07	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1823982-07	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1823982-07	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1823982-07	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1823982-07	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1823982-07	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1823982

Analytical 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	1823982-07	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1823982-07	Trichlorofluoromethane	8/7/2018	0.27	Y	y	v j		0.50	0.14	ug/L
MW-8	1823982-07	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
MW-8	1823982-07	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1823982-07	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1823982-07	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
MW-8	1823982-07	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
MW-8	1823982-07	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1823982-07	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1823982-07	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1823982-07	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1823982-07	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1823982-07	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1823982-07	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1823982-07	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1823982-07	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1823982-07	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1823982

Analytical 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	1823982-07	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1823982-07	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1823982-07	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1823982-07	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-080218	1823982-01	2,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-080218	1823982-01	1,1-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-080218	1823982-01	p-Isopropyltoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	Isopropylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	Ethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	trans-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-080218	1823982-01	Methylene chloride	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-080218	1823982-01	cis-1,3-Dichloropropene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	1,1,2,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	Hexachlorobutadiene	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-080218	1823982-01	Methyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	Naphthalene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-080218	1823982-01	n-Propylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-080218	1823982-01	1,1,1,2-Tetrachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-080218	1823982-01	Toluene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	1,1,1-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-080218	1823982-01	2-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	1,2,4-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	1,2,3-Trichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-080218	1823982-01	Tetrachloroethene	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-080218	1823982-01	Styrene	8/7/2018	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1823982

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-8-080218	1823982-01	1,2-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-080218	1823982-01	Carbon tetrachloride	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	Chlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	Chloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	Chloroform	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	Chloromethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-080218	1823982-01	Methyl isobutyl ketone	8/7/2018	10	Y	n	u		10	2.4	ug/L
TB-8-080218	1823982-01	4-Chlorotoluene	8/7/2018	0.5	Y	n	u		0.50	0.093	ug/L
TB-8-080218	1823982-01	1,1,2-Trichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-080218	1823982-01	1,2-Dibromo-3-chloropropane	8/7/2018	1	Y	n	u		1.0	0.89	ug/L
TB-8-080218	1823982-01	Dibromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-080218	1823982-01	Dibromomethane	8/7/2018	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-080218	1823982-01	1,3-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-080218	1823982-01	1,3-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-080218	1823982-01	1,4-Dichlorobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	Dichlorodifluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	1,1-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	1,2-Dichloroethane	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	1,1-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-080218	1823982-01	cis-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-080218	1823982-01	trans-1,2-Dichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	1,2-Dichloropropane	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	1,2-Dibromoethane	8/7/2018	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-080218	1823982-01	Bromodichloromethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-080218	1823982-01	Methyl ethyl ketone	8/7/2018	10	Y	n	u		10	3.3	ug/L

SDG: 1823982

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-8-080218	1823982-01	Tetrahydrofuran	8/7/2018	20	Y	n	u		20	5.2	ug/L
TB-8-080218	1823982-01	p- & m-Xylenes	8/7/2018	0.5	Y	n	u		0.50	0.34	ug/L
TB-8-080218	1823982-01	o-Xylene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-080218	1823982-01	Chloroacetonitrile	8/7/2018	0	Y	y	v				ug/L
TB-8-080218	1823982-01	1-Chlorobutane	8/7/2018	0	Y	y	v				ug/L
TB-8-080218	1823982-01	1,1-Dichloropropanone	8/7/2018	0	Y	y	v				ug/L
TB-8-080218	1823982-01	Methyl acrylate	8/7/2018	0	Y	y	v				ug/L
TB-8-080218	1823982-01	Pentachloroethane	8/7/2018	2	Y	n	u		2.0	0.63	ug/L
TB-8-080218	1823982-01	2-Nitropropane	8/7/2018	0	Y	y	v				ug/L
TB-8-080218	1823982-01	Methyl methacrylate	8/7/2018	5	Y	n	u		5.0	1.2	ug/L
TB-8-080218	1823982-01	Bromochloromethane	8/7/2018	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-080218	1823982-01	Bromobenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	sec-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-080218	1823982-01	n-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-080218	1823982-01	Bromoform	8/7/2018	0.5	Y	n	u		0.50	0.46	ug/L
TB-8-080218	1823982-01	tert-Butylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-080218	1823982-01	Bromomethane	8/7/2018	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-080218	1823982-01	Benzene	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-080218	1823982-01	Nitrobenzene	8/7/2018	0	Y	y	v				ug/L
TB-8-080218	1823982-01	t-Butyl alcohol	8/7/2018	10	Y	n	u		10	9.4	ug/L
TB-8-080218	1823982-01	Trichlorofluoromethane	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-080218	1823982-01	1,2,3-Trichloropropane	8/7/2018	1	Y	n	u		1.0	0.78	ug/L
TB-8-080218	1823982-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-080218	1823982-01	1,2,4-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-080218	1823982-01	1,3,5-Trimethylbenzene	8/7/2018	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1823982

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-8-080218	1823982-01	Vinyl chloride	8/7/2018	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-080218	1823982-01	Acetone	8/7/2018	10	Y	n	u		10	6.6	ug/L
TB-8-080218	1823982-01	Acrylonitrile	8/7/2018	5	Y	n	u		5.0	1.5	ug/L
TB-8-080218	1823982-01	Propionitrile	8/7/2018	20	Y	n	u		20	6.2	ug/L
TB-8-080218	1823982-01	t-Amyl Methyl ether	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-080218	1823982-01	Trichloroethene	8/7/2018	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-080218	1823982-01	Carbon disulfide	8/7/2018	1	Y	n	u		1.0	0.48	ug/L
TB-8-080218	1823982-01	trans-1,4-Dichloro-2-butene	8/7/2018	5	Y	n	u		5.0	1.8	ug/L
TB-8-080218	1823982-01	Diethyl ether	8/7/2018	2	Y	n	u		2.0	0.33	ug/L
TB-8-080218	1823982-01	Ethyl methacrylate	8/7/2018	4	Y	n	u		4.0	1.3	ug/L
TB-8-080218	1823982-01	Ethyl t-butyl ether	8/7/2018	0.5	Y	n	u		0.50	0.32	ug/L
TB-8-080218	1823982-01	Hexachloroethane	8/7/2018	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-080218	1823982-01	2-Hexanone	8/7/2018	10	Y	n	u		10	5.0	ug/L
TB-8-080218	1823982-01	Methacrylonitrile	8/7/2018	10	Y	n	u		10	2.3	ug/L
TB-8-080218	1823982-01	Methyl iodide	8/7/2018	2	Y	n	u		2.0	1.1	ug/L
TB-8-080218	1823982-01	Allyl chloride	8/7/2018	5	Y	n	u		5.0	0.47	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-5-3Q18	1823982-03	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
DUP-6-3Q18	1823982-06	Hexavalent Chromium	8/2/2018	0.0013	Y	y	v j		0.0020	0.0007	mg/L
DUP-7-3Q18	1823982-08	Hexavalent Chromium	8/2/2018	#####	Y	y	v j		0.0020	0.0007	mg/L
MW-10	1823982-09	Hexavalent Chromium	8/2/2018	0.0028	Y	y	v		0.0020	0.0007	mg/L
MW-15	1823982-04	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-5	1823982-02	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L

SDG: 1823982

Analytical Method											
EPA-7196											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1823982-05	Hexavalent Chromium	8/2/2018	0.0011	Y	y	v j		0.0020	0.0007	mg/L
MW-7	1823982-11	Hexavalent Chromium	8/2/2018	0.002	Y	n	u		0.0020	0.0007	mg/L
MW-8	1823982-07	Hexavalent Chromium	8/2/2018	#####	Y	y	v j		0.0020	0.0007	mg/L

LDC #: 43076

EDD POPULATION COMPLETENESS WORKSHEET

Date: 9/26/15
 Page: 1 of 1
 2nd Reviewer: JE

The LDC job number listed above was entered by CAF
 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.	- 10% 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