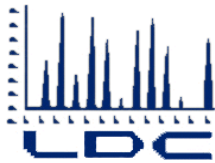


ATTACHMENT 2: DATA VALIDATION REPORTS

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
David.Conner@tideh2o.net

December 10, 2019

SUBJECT: NASA JPL, 4Q2019, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on November 14, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #46532:

SDG #

Fraction

1935138, 1935353, 1935526
1935709, 1935863

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

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

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

EDD 90/10 (client select)

LDC #46532 (Tidewater- Powell, OH / NASA JPL, 4Q2019)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (524.2)		Cr (200.8)		Cl,SO ₄ NO ₃ -N (300.0)		NO ₂ -N (353.2)		O-PO ₄ -P (365.1)		Cr(VI) (7196)		CLO ₂ (314.0)																							
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S		
Matrix: Water/Soil																																							
A	1935138	11/14/19	12/09/19	12	0	11	0	-	-	-	-	-	-	11	0	11	0																						
A	1935138	11/14/19	12/09/19	2	0	2	0	-	-	-	-	-	-	2	0	2	0																						
B	1935353	11/14/19	12/09/19	12	0	11	0	-	-	-	-	-	-	11	0	11	0																						
C	1935526	11/14/19	12/09/19	12	0	11	0	1	0	1	0	1	0	11	0	11	0																						
C	1935526	11/14/19	12/09/19	1	0	1	0	0	0	0	0	0	0	1	0	1	0																						
D	1935709	11/14/19	12/09/19	11	0	10	0	-	-	-	-	-	-	10	0	10	0																						
D	1935709	11/14/19	12/09/19	1	0	1	0	-	-	-	-	-	-	1	0	1	0																						
E	1935863	11/14/19	12/09/19	8	0	7	0	-	-	-	-	-	-	7	0	7	0																						
E	1935863	11/14/19	12/09/19	1	0	1	0	-	-	-	-	-	-	1	0	1	0																						
Total				60	0	55	0	1	0	1	0	1	0	55	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935138

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-1-101419	1935138-01	Water	10/14/19
MW-20-5	1935138-02	Water	10/14/19
MW-20-4	1935138-03	Water	10/14/19
Dup-1-4Q19	1935138-04	Water	10/14/19
MW-20-3	1935138-05	Water	10/14/19
MW-20-2	1935138-06	Water	10/14/19
MW-19-5	1935138-07	Water	10/14/19
MW-19-4	1935138-08	Water	10/14/19
DUP-2-4Q19**	1935138-09**	Water	10/14/19
MW-19-3	1935138-10	Water	10/14/19
MW-19-2**	1935138-11**	Water	10/14/19
MW-19-1	1935138-12	Water	10/14/19
EB-1-101419	1935138-13	Water	10/14/19
SB-1-101419	1935138-14	Water	10/14/19
DUP-2-4Q19MS	1935138-09MS	Water	10/14/19
DUP-2-4Q19MSD	1935138-09MSD	Water	10/14/19
DUP-2-4Q19DUP	1935138-09DUP	Water	10/14/19

**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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/16/19	Methyl iodide	32.8	All samples in SDG 1935138	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-1-101419 was identified as a trip blank. No contaminants were found.

Sample EB-1-101419 was identified as an equipment blank. No contaminants were found.

Sample SB-1-101419 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-20-4 and Dup-1-4Q19 and samples MW-19-4 and DUP-2-4Q19** were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-20-4	Dup-1-4Q19	
Carbon disulfide	0.69	0.50	32

Compound	Concentration (ug/L)		RPD
	MW-19-4	DUP-2-4Q19**	
Chloroform	0.70	0.90	25
Tetrachloroethene	0.30	0.46	42

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1935138

Sample	Compound	Flag	A or P	Reason
TB-1-101419 MW-20-5 MW-20-4 Dup-1-4Q19 MW-20-3 MW-20-2 MW-19-5 MW-19-4 DUP-2-4Q19** MW-19-3 MW-19-2** MW-19-1 EB-1-101419 SB-1-101419	Methyl iodide	UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1935138

No Sample Data Qualified in this SDG

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 20%. Y ² CV ≤ 30%
IV.	Continuing calibration	SW	CV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB=13. SB=14. TB=1
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	W	S=3+4. 8+9
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

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

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-1-101419	1935138-01	Water	10/14/19
2	MW-20-5	1935138-02	Water	10/14/19
3	MW-20-4	1935138-03	Water	10/14/19
4	Dup-1-4Q19	1935138-04	Water	10/14/19
5	MW-20-3	1935138-05	Water	10/14/19
6	MW-20-2	1935138-06	Water	10/14/19
7	MW-19-5	1935138-07	Water	10/14/19
8	MW-19-4	1935138-08	Water	10/14/19
9	DUP-2-4Q19**	1935138-09**	Water	10/14/19
10	MW-19-3	1935138-10	Water	10/14/19
11	MW-19-2**	1935138-11**	Water	10/14/19
12	MW-19-1	1935138-12	Water	10/14/19
13	EB-1-101419	1935138-13	Water	10/14/19
14	SB-1-101419	1935138-14	Water	10/14/19

LDC #: 46532A1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935138

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 10/14/19

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
15	DUP-2-4Q19MS	1935138-09MS	Water	10/14/19
16	DUP-2-4Q19MSD	1935138-09MSD	Water	10/14/19
17	DUP-2-4Q19DUP	1935138-09DUP	Water	10/14/19
18				
19				
20				
21				
22				

Notes:

Method: Volatiles (EPA Method 524.2)

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

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) within 70-130%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input 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.

VALIDATION FINDINGS WORKSHEET Continuing Calibration

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

#	Date	Standard ID	Compound	Finding %D (Limit: \leq 30.0%)	Associated Samples	Qualifications
	10/16/19	1602T03	Methyl iodide	32.8	All (NO)	N/A

LDC# 46532A1

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
	3	4	
G	0.69	0.50	32

Compound	Concentration (ug/L)		RPD
	8	9	
K	0.70	0.90	25
AA	0.30	0.46	42

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)	10/4/19	K (1st internal standard)	0.7215136	0.7215136	0.6924436	0.6924436	6.702173	6.702
			S (2nd internal standard)	0.3384052	0.3384051	0.3454039	0.345039	4.045952	4.046
			EE (3rd internal standard)	2.023053	2.023053	2.055444	2.055444	10.94163	10.942
			(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	16OCT02	10/16/19	K (1st internal standard)	0.6924436	0.7611227	0.7611227	9.9	9.9
			S (2nd internal standard)	0.3454039	0.3457592	0.3457591	0.1	0.1
			EE (3rd internal standard)	2.055444	1.909483	1.909483	7.1	7.1
			HHH (4th internal standard)					
2			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
3			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
4			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					

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

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 9

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.75	97.5	97.5	
Bromofluorobenzene	↓	10.10	101	101	
1,2-Dichlorobenzene-d4 1,2-DCA	↓	10.10	101	101	
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: 1516

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	30.560	29.980	122	122	120	120	1.92	1.92
Trichloroethene	↓	↓	↓	28.760	28.460	115	115	114	114	1.05	1.05
Benzene	↓	↓	↓	27.640	27.520	111	111	110	110	0.435	0.435
Toluene	↓	↓	↓	26.400	26.280	106	106	105	105	0.456	0.456
Chlorobenzene	↓	↓	↓	27.320	27.140	109	109	109	109	0.661	0.661

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: B059690-1051

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	25.000	NA	26.420	NA	106	106				
Trichloroethene	↓	↓	24.940	↓	99.8	99.8				
Benzene	↓	↓	24.180	↓	96.7	96.7				
Toluene	↓	↓	22.600	↓	90.4	90.4				
Chlorobenzene	↓	↓	24.080	↓	96.3	96.3				

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, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935138

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1935138-02	Water	10/14/19
MW-20-4	1935138-03	Water	10/14/19
Dup-1-4Q19	1935138-04	Water	10/14/19
MW-20-3	1935138-05	Water	10/14/19
MW-20-2	1935138-06	Water	10/14/19
MW-19-5	1935138-07	Water	10/14/19
MW-19-4	1935138-08	Water	10/14/19
DUP-2-4Q19**	1935138-09**	Water	10/14/19
MW-19-3	1935138-10	Water	10/14/19
MW-19-2**	1935138-11**	Water	10/14/19
MW-19-1	1935138-12	Water	10/14/19
EB-1-101419	1935138-13	Water	10/14/19
SB-1-101419	1935138-14	Water	10/14/19
DUP-2-4Q19MS	1935138-09MS	Water	10/14/19
DUP-2-4Q19MSD	1935138-09MSD	Water	10/14/19
DUP-2-4Q19DUP	1935138-09DUP	Water	10/14/19

**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.

VI. Field Blanks

Sample EB-1-101419 was identified as an equipment blank. No contaminants were found.

Sample SB-1-101419 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 analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-20-4 and Dup-1-4Q19 and samples MW-19-4 and DUP-2-4Q19** were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-20-4	Dup-1-4Q19	
Chromium	0.50U	0.57	13

Analyte	Concentration (ug/L)		RPD
	MW-19-4	DUP-2-4Q19**	
Chromium	2.2	2.4	9

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

**NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1935138**

No Sample Data Qualified in this SDG

**NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1935138**

No Sample Data Qualified in this SDG

LDC #: 46532A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/4/19

SDG #: 1935138

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=12, SB=13
VII.	Matrix Spike/Matrix Spike Duplicates	A	(14,15)
VIII.	Duplicate sample analysis	A	16
IX.	Serial Dilution	A, A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(2,3), (7,8)
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV only
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-20-5	1935138-02	Water	10/14/19
2	MW-20-4	1935138-03	Water	10/14/19
3	Dup-1-4Q19	1935138-04	Water	10/14/19
4	MW-20-3	1935138-05	Water	10/14/19
5	MW-20-2	1935138-06	Water	10/14/19
6	MW-19-5	1935138-07	Water	10/14/19
7	MW-19-4	1935138-08	Water	10/14/19
8	DUP-2-4Q19** (client picks, lab only provides raw data for this sample)	1935138-09**	Water	10/14/19
9	MW-19-3	1935138-10	Water	10/14/19
10	MW-19-2**	1935138-11**	Water	10/14/19
11	MW-19-1	1935138-12	Water	10/14/19
12	EB-1-101419	1935138-13	Water	10/14/19
13	SB-1-101419	1935138-14	Water	10/14/19
14	DUP-2-4Q19MS	1935138-09MS	Water	10/14/19
15	DUP-2-4Q19MSD	1935138-09MSD	Water	10/14/19

LDC #: 46532A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/14/19

SDG #: 1935138

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16	DUP-2-4Q19DUP	1935138-09DUP	Water	10/14/19
17				
18				
19				
20				
21				

Notes: _____


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

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

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

LDC#: 46532A4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	2	3		
Chromium	0.50 U	0.57	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46532A4a.wpd

Analyte	Concentration (ug/L)		RPD	
	7	8		
Chromium	2.2	2.4	9	

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) 10/16 @ 08:03	Cr	51.535	50.000	103	103	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 10/16 @ 20:30	Cr	38.727	40.000	96.8	96.8	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	23.985	24.027	± 0.1 AMU	NA	Y
	%RSD	114.9	67965.9	≤ 5% RSD	0.6	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 10/16 @ 19:30	Cr	40.827	40.000	102	102	Y
14	Matrix spike 10/16 @ 19:37	Cr	(SSR-SR) 36.887	40.000	92.2	92.2	Y
14/15	Duplicate 10/16 @ 19:39	Cr	38.310	39.287	2.52	2.52	Y
8	Post digestion spike 10/16 @ 19:41	Cr	35.338	40.000	88.3	88.5	Y
8	ICP serial dilution 10/16 @ 19:35	Cr	2.475	2.404	3	3	Y

Comments: _____

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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

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

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

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

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

Recalculation: $\#8$
 $2.404 \approx 2.4$

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

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	8	Cr (10/16 @ 19:32)	2.4	2.4	Y
	10	Cr (10/16 @ 20:28)	1.5	1.5	Y

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935138

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1935138-02	Water	10/14/19
MW-20-4	1935138-03	Water	10/14/19
Dup-1-4Q19	1935138-04	Water	10/14/19
MW-20-3	1935138-05	Water	10/14/19
MW-20-2	1935138-06	Water	10/14/19
MW-19-5	1935138-07	Water	10/14/19
MW-19-4	1935138-08	Water	10/14/19
DUP-2-4Q19**	1935138-09**	Water	10/14/19
MW-19-3	1935138-10	Water	10/14/19
MW-19-2**	1935138-11**	Water	10/14/19
MW-19-1	1935138-12	Water	10/14/19
EB-1-101419	1935138-13	Water	10/14/19
SB-1-101419	1935138-14	Water	10/14/19
DUP-2-4Q19MS	1935138-09MS	Water	10/14/19
DUP-2-4Q19MSD	1935138-09MSD	Water	10/14/19
DUP-2-4Q19DUP	1935138-09DUP	Water	10/14/19
MW-19-2MS	1935138-11MS	Water	10/14/19
MW-19-2MSD	1935138-11MSD	Water	10/14/19
MW-19-2DUP	1935138-11DUP	Water	10/14/19

**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) Method 218.6
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-1-101419 was identified as an equipment blank. No contaminants were found.

Sample SB-1-101419 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-20-4 and Dup-1-4Q19 and samples MW-19-4 and DUP-2-4Q19** were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	MW-20-4	Dup-1-4Q19	
Hexavalent chromium	0.000063	0.000066	5

Analyte	Concentration		RPD
	MW-19-4	DUP-2-4Q19**	
Hexavalent chromium	0.0026 mg/L	0.0026 mg/L	0
Perchlorate	3.0 ug/L	2.9 ug/L	3

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1935138

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1935138

No Sample Data Qualified in this SDG

LDC #: 46532A6

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935138

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/4/19

Page: 1 of 2

Reviewer: ATU

2nd Reviewer:

METHOD: (Analyte) Hexavalent Chromium (EPA Method 218.6), 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=13, SB=14
VI.	Matrix Spike/Matrix Spike Duplicates	A	(15,16), (18,19)
VII.	Duplicate sample analysis	A	17, 20
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(3,4), (8,9)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-1-101419	1935138-01	Water	10/14/19
2	MW-20-5	1935138-02	Water	10/14/19
3	✓ MW-20-4	1935138-03	Water	10/14/19
4	✓ Dup-1-4Q19	1935138-04	Water	10/14/19
5	MW-20-3	1935138-05	Water	10/14/19
6	MW-20-2	1935138-06	Water	10/14/19
7	MW-19-5	1935138-07	Water	10/14/19
8	✓ MW-19-4	1935138-08	Water	10/14/19
9	✓ DUP-2-4Q19** (client picks, lab only provides raw data for this sample)	1935138-09**	Water	10/14/19
10	MW-19-3	1935138-10	Water	10/14/19
11	MW-19-2**	1935138-11**	Water	10/14/19
12	MW-19-1	1935138-12	Water	10/14/19
13	EB-1-101419	1935138-13	Water	10/14/19
14	SB-1-101419	1935138-14	Water	10/14/19
15	DUP-2-4Q19MS	1935138-09MS	Water	10/14/19
16	DUP-2-4Q19MSD	1935138-09MSD	Water	10/14/19
17	DUP-2-4Q19DUP	1935138-09DUP	Water	10/14/19

LDC #: 46532A6

VALIDATION COMPLETENESS WORKSHEET

Date: 12/4/19

SDG #: 1935138

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATC
2nd Reviewer: [Signature]

METHOD: (Analyte) Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18	MW-19-2MS	1935138-11MS	Water	10/14/19
19	MW-19-2MSD	1935138-11MSD	Water	10/14/19
20	MW-19-2DUP	1935138-11DUP	Water	10/14/19
21				
22				
23				
24				
25				

Notes: _____

Method: Inorganics (EPA Method see cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?		✓		
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995 ?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ 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 $< 5\text{X}$ 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
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC (Cr6+) (ClO ₄)
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
15-20	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC (Cr6+) ClO ₄
15,16,17	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ (ClO ₄)
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	3	4		
Hexavalent Chromium	0.000063	0.000066	5	

Analyte	Concentration (mg/L)		RPD	
	8	9		
Hexavalent Chromium	0.0026	0.0026	0	
Perchlorate (ug/L)	3.0	2.9	3	

LDC #: 46532AG

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 Cr6+ was recalculated. Calibration date: 10/14/19

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	Cr6+	s1	0.2	0.025	0.9999	0.9999	Y
		s2	2	0.259			
		s3	10	1.332			
		s4	25	3.277			
		s5	50	6.68			
CCV ₁ (10/16 @ 15:45) Calibration verification	Cr6+	FOUND 24.836	TRUE 25.000		99.3	99.4	Y
CCV ₂ (11/01 @ 20:30) Calibration verification	ClO ₄ ⁻	11.000	10.000		110	103	Y
CCV ₃ (11/01 @ 23:35) Calibration verification	ClO ₄ ⁻	11.000	10.000		110	104	Y

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

LDC #: 46532AG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

METHOD: Inorganics, Method See cover

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample	Cr6+	mg/L 0.01941	mg/L 0.0200	97	97	Y
15	Matrix spike sample	ClO4 ⁻	(SSR-SR) mg/L 11.282	Mg/L 10.101	112	101	Y
15/16	Duplicate sample	ClO4 ⁻	14.141 mg/L	14.141 mg/L	0	0.0922	Y

Comments: _____

NASA JPL, 4Q2019 - LDC# 46532

SDG: 1935138

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-4Q19	1935138-04	Total Recoverable Chromium	10/16/2019	0.57	Y		v j		3.0	0.50	ug/L
DUP-2-4Q19	1935138-09	Total Recoverable Chromium	10/16/2019	2.4	Y		v j		3.0	0.50	ug/L
EB-1-101419	1935138-13	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L
MW-19-1	1935138-12	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L
MW-19-2	1935138-11	Total Recoverable Chromium	10/16/2019	1.5	Y		v j		3.0	0.50	ug/L
MW-19-3	1935138-10	Total Recoverable Chromium	10/16/2019	2	Y		v j		3.0	0.50	ug/L
MW-19-4	1935138-08	Total Recoverable Chromium	10/16/2019	2.2	Y		v j		3.0	0.50	ug/L
MW-19-5	1935138-07	Total Recoverable Chromium	10/16/2019	2.2	Y		v j		3.0	0.50	ug/L
MW-20-2	1935138-06	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L
MW-20-3	1935138-05	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L
MW-20-4	1935138-03	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L
MW-20-5	1935138-02	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L
SB-1-101419	1935138-14	Total Recoverable Chromium	10/16/2019	3	Y		u		3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-1-4Q19	1935138-04	Hexavalent Chromium	10/16/2019	#####	Y		v j		0.0002	0.0000	mg/L
DUP-2-4Q19	1935138-09	Hexavalent Chromium	10/16/2019	0.0026	Y		v		0.0002	0.0000	mg/L
EB-1-101419	1935138-13	Hexavalent Chromium	10/16/2019	0.0002	Y		u		0.0002	0.0000	mg/L
MW-19-1	1935138-12	Hexavalent Chromium	10/16/2019	0.0002	Y		u		0.0002	0.0000	mg/L
MW-19-2	1935138-11	Hexavalent Chromium	10/16/2019	#####	Y		v		0.0002	0.0000	mg/L
MW-19-3	1935138-10	Hexavalent Chromium	10/16/2019	0.0019	Y		v		0.0002	0.0000	mg/L
MW-19-4	1935138-08	Hexavalent Chromium	10/16/2019	0.0026	Y		v		0.0002	0.0000	mg/L
MW-19-5	1935138-07	Hexavalent Chromium	10/16/2019	0.0019	Y		v		0.0002	0.0000	mg/L

SDG: 1935138

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1935138-06	Hexavalent Chromium	10/16/2019	0.0002	Y		u		0.0002	0.0000	mg/L
MW-20-3	1935138-05	Hexavalent Chromium	10/16/2019	0.0002	Y		u		0.0002	0.0000	mg/L
MW-20-4	1935138-03	Hexavalent Chromium	10/16/2019	#####	Y		v j		0.0002	0.0000	mg/L
MW-20-5	1935138-02	Hexavalent Chromium	10/16/2019	#####	Y		v j		0.0002	0.0000	mg/L
SB-1-101419	1935138-14	Hexavalent Chromium	10/16/2019	0.0002	Y		u		0.0002	0.0000	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-1-4Q19	1935138-04	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	ug/L
DUP-2-4Q19	1935138-09	Perchlorate	11/1/2019	2.9	Y		v j		4.0	0.76	ug/L
EB-1-101419	1935138-13	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	ug/L
MW-19-1	1935138-12	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	ug/L
MW-19-2	1935138-11	Perchlorate	11/1/2019	3.7	Y		v j		4.0	0.76	ug/L
MW-19-3	1935138-10	Perchlorate	11/1/2019	3.5	Y		v j		4.0	0.76	ug/L
MW-19-4	1935138-08	Perchlorate	11/1/2019	3	Y		v j		4.0	0.76	ug/L
MW-19-5	1935138-07	Perchlorate	11/1/2019	1.7	Y		v j		4.0	0.76	ug/L
MW-20-2	1935138-06	Perchlorate	11/1/2019	2.2	Y		v j		4.0	0.76	ug/L
MW-20-3	1935138-05	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	ug/L
MW-20-4	1935138-03	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	ug/L
MW-20-5	1935138-02	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	ug/L
SB-1-101419	1935138-14	Perchlorate	11/1/2019	4	Y		u		4.0	0.76	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-1-4Q19	1935138-04	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L

SDG: 1935138

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-1-4Q19	1935138-04	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
Dup-1-4Q19	1935138-04	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
Dup-1-4Q19	1935138-04	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
Dup-1-4Q19	1935138-04	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
Dup-1-4Q19	1935138-04	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
Dup-1-4Q19	1935138-04	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
Dup-1-4Q19	1935138-04	Nitrobenzene	10/16/2019	0	Y		v				ug/L
Dup-1-4Q19	1935138-04	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
Dup-1-4Q19	1935138-04	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
Dup-1-4Q19	1935138-04	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
Dup-1-4Q19	1935138-04	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
Dup-1-4Q19	1935138-04	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
Dup-1-4Q19	1935138-04	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
Dup-1-4Q19	1935138-04	Methyl acrylate	10/16/2019	0	Y		v				ug/L
Dup-1-4Q19	1935138-04	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
Dup-1-4Q19	1935138-04	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
Dup-1-4Q19	1935138-04	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
Dup-1-4Q19	1935138-04	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
Dup-1-4Q19	1935138-04	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
Dup-1-4Q19	1935138-04	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L

SDG: 1935138

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-1-4Q19	1935138-04	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
Dup-1-4Q19	1935138-04	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
Dup-1-4Q19	1935138-04	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
Dup-1-4Q19	1935138-04	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
Dup-1-4Q19	1935138-04	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
Dup-1-4Q19	1935138-04	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
Dup-1-4Q19	1935138-04	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	Carbon disulfide	10/16/2019	0.5	Y		v j		1.0	0.48	ug/L
Dup-1-4Q19	1935138-04	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
Dup-1-4Q19	1935138-04	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
Dup-1-4Q19	1935138-04	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
Dup-1-4Q19	1935138-04	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
Dup-1-4Q19	1935138-04	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
Dup-1-4Q19	1935138-04	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
Dup-1-4Q19	1935138-04	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
Dup-1-4Q19	1935138-04	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
Dup-1-4Q19	1935138-04	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
Dup-1-4Q19	1935138-04	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
Dup-1-4Q19	1935138-04	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
Dup-1-4Q19	1935138-04	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

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-1-4Q19	1935138-04	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
Dup-1-4Q19	1935138-04	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
Dup-1-4Q19	1935138-04	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
Dup-1-4Q19	1935138-04	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
Dup-1-4Q19	1935138-04	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
Dup-1-4Q19	1935138-04	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
Dup-1-4Q19	1935138-04	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
Dup-1-4Q19	1935138-04	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
Dup-1-4Q19	1935138-04	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	2-Nitropropane	10/16/2019	0	Y		v				ug/L
Dup-1-4Q19	1935138-04	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
Dup-1-4Q19	1935138-04	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
Dup-1-4Q19	1935138-04	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
Dup-1-4Q19	1935138-04	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
Dup-1-4Q19	1935138-04	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
Dup-1-4Q19	1935138-04	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
Dup-1-4Q19	1935138-04	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
Dup-1-4Q19	1935138-04	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
Dup-1-4Q19	1935138-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L

SDG: 1935138

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-1-4Q19	1935138-04	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
Dup-1-4Q19	1935138-04	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
Dup-1-4Q19	1935138-04	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
Dup-1-4Q19	1935138-04	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
Dup-1-4Q19	1935138-04	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
Dup-1-4Q19	1935138-04	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
Dup-1-4Q19	1935138-04	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
Dup-1-4Q19	1935138-04	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
Dup-1-4Q19	1935138-04	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
Dup-1-4Q19	1935138-04	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
DUP-2-4Q19	1935138-09	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
DUP-2-4Q19	1935138-09	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
DUP-2-4Q19	1935138-09	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
DUP-2-4Q19	1935138-09	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
DUP-2-4Q19	1935138-09	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
DUP-2-4Q19	1935138-09	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
DUP-2-4Q19	1935138-09	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
DUP-2-4Q19	1935138-09	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
DUP-2-4Q19	1935138-09	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
DUP-2-4Q19	1935138-09	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
DUP-2-4Q19	1935138-09	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
DUP-2-4Q19	1935138-09	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
DUP-2-4Q19	1935138-09	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L

SDG: 1935138

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-2-4Q19	1935138-09	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
DUP-2-4Q19	1935138-09	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
DUP-2-4Q19	1935138-09	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
DUP-2-4Q19	1935138-09	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
DUP-2-4Q19	1935138-09	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
DUP-2-4Q19	1935138-09	Nitrobenzene	10/16/2019	0	Y		v				ug/L
DUP-2-4Q19	1935138-09	2-Nitropropane	10/16/2019	0	Y		v				ug/L
DUP-2-4Q19	1935138-09	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
DUP-2-4Q19	1935138-09	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
DUP-2-4Q19	1935138-09	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
DUP-2-4Q19	1935138-09	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
DUP-2-4Q19	1935138-09	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
DUP-2-4Q19	1935138-09	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
DUP-2-4Q19	1935138-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
DUP-2-4Q19	1935138-09	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
DUP-2-4Q19	1935138-09	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
DUP-2-4Q19	1935138-09	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
DUP-2-4Q19	1935138-09	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
DUP-2-4Q19	1935138-09	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
DUP-2-4Q19	1935138-09	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
DUP-2-4Q19	1935138-09	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
DUP-2-4Q19	1935138-09	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L

SDG: 1935138

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-2-4Q19	1935138-09	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
DUP-2-4Q19	1935138-09	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	Chloroform	10/16/2019	0.9	Y		v		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
DUP-2-4Q19	1935138-09	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
DUP-2-4Q19	1935138-09	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
DUP-2-4Q19	1935138-09	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
DUP-2-4Q19	1935138-09	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
DUP-2-4Q19	1935138-09	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
DUP-2-4Q19	1935138-09	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
DUP-2-4Q19	1935138-09	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
DUP-2-4Q19	1935138-09	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
DUP-2-4Q19	1935138-09	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
DUP-2-4Q19	1935138-09	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
DUP-2-4Q19	1935138-09	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
DUP-2-4Q19	1935138-09	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
DUP-2-4Q19	1935138-09	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
DUP-2-4Q19	1935138-09	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
DUP-2-4Q19	1935138-09	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
DUP-2-4Q19	1935138-09	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
DUP-2-4Q19	1935138-09	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L

SDG: 1935138

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-2-4Q19	1935138-09	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
DUP-2-4Q19	1935138-09	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
DUP-2-4Q19	1935138-09	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
DUP-2-4Q19	1935138-09	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
DUP-2-4Q19	1935138-09	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
DUP-2-4Q19	1935138-09	Tetrachloroethene	10/16/2019	0.46	Y		v j		0.50	0.23	ug/L
DUP-2-4Q19	1935138-09	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
DUP-2-4Q19	1935138-09	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
DUP-2-4Q19	1935138-09	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
DUP-2-4Q19	1935138-09	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
DUP-2-4Q19	1935138-09	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
DUP-2-4Q19	1935138-09	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
DUP-2-4Q19	1935138-09	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
DUP-2-4Q19	1935138-09	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
DUP-2-4Q19	1935138-09	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
DUP-2-4Q19	1935138-09	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
DUP-2-4Q19	1935138-09	Methyl acrylate	10/16/2019	0	Y		v				ug/L
DUP-2-4Q19	1935138-09	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
DUP-2-4Q19	1935138-09	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
EB-1-101419	1935138-13	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
EB-1-101419	1935138-13	2-Nitropropane	10/16/2019	0	Y		v				ug/L
EB-1-101419	1935138-13	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L

SDG: 1935138

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-1-101419	1935138-13	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
EB-1-101419	1935138-13	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
EB-1-101419	1935138-13	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
EB-1-101419	1935138-13	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
EB-1-101419	1935138-13	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
EB-1-101419	1935138-13	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
EB-1-101419	1935138-13	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
EB-1-101419	1935138-13	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
EB-1-101419	1935138-13	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
EB-1-101419	1935138-13	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
EB-1-101419	1935138-13	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
EB-1-101419	1935138-13	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
EB-1-101419	1935138-13	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
EB-1-101419	1935138-13	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
EB-1-101419	1935138-13	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
EB-1-101419	1935138-13	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
EB-1-101419	1935138-13	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
EB-1-101419	1935138-13	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L

SDG: 1935138

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-1-101419	1935138-13	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
EB-1-101419	1935138-13	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
EB-1-101419	1935138-13	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
EB-1-101419	1935138-13	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
EB-1-101419	1935138-13	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
EB-1-101419	1935138-13	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
EB-1-101419	1935138-13	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
EB-1-101419	1935138-13	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
EB-1-101419	1935138-13	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
EB-1-101419	1935138-13	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
EB-1-101419	1935138-13	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
EB-1-101419	1935138-13	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
EB-1-101419	1935138-13	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	Methyl acrylate	10/16/2019	0	Y		v				ug/L
EB-1-101419	1935138-13	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
EB-1-101419	1935138-13	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L

SDG: 1935138

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-1-101419	1935138-13	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
EB-1-101419	1935138-13	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
EB-1-101419	1935138-13	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
EB-1-101419	1935138-13	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
EB-1-101419	1935138-13	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
EB-1-101419	1935138-13	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
EB-1-101419	1935138-13	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
EB-1-101419	1935138-13	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
EB-1-101419	1935138-13	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
EB-1-101419	1935138-13	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
EB-1-101419	1935138-13	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
EB-1-101419	1935138-13	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
EB-1-101419	1935138-13	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
EB-1-101419	1935138-13	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
EB-1-101419	1935138-13	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
EB-1-101419	1935138-13	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
EB-1-101419	1935138-13	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
EB-1-101419	1935138-13	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
EB-1-101419	1935138-13	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
EB-1-101419	1935138-13	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
EB-1-101419	1935138-13	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L

SDG: 1935138

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-1-101419	1935138-13	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
EB-1-101419	1935138-13	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
EB-1-101419	1935138-13	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
EB-1-101419	1935138-13	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
EB-1-101419	1935138-13	Nitrobenzene	10/16/2019	0	Y		v				ug/L
EB-1-101419	1935138-13	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
EB-1-101419	1935138-13	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
EB-1-101419	1935138-13	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
EB-1-101419	1935138-13	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-19-1	1935138-12	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-1	1935138-12	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-1	1935138-12	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-1	1935138-12	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-19-1	1935138-12	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-19-1	1935138-12	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-19-1	1935138-12	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-1	1935138-12	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	Chloroform	10/16/2019	0.36	Y		v j		0.50	0.14	ug/L
MW-19-1	1935138-12	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L

SDG: 1935138

Analytical 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	1935138-12	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
MW-19-1	1935138-12	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-19-1	1935138-12	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-1	1935138-12	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-1	1935138-12	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-1	1935138-12	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-19-1	1935138-12	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-1	1935138-12	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-1	1935138-12	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-19-1	1935138-12	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-19-1	1935138-12	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-1	1935138-12	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-1	1935138-12	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-1	1935138-12	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-19-1	1935138-12	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-1	1935138-12	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-1	1935138-12	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-19-1	1935138-12	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-19-1	1935138-12	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-1	1935138-12	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-1	1935138-12	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-1	1935138-12	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-1	1935138-12	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

Analytical 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	1935138-12	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-19-1	1935138-12	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-1	1935138-12	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-19-1	1935138-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-1	1935138-12	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-1	1935138-12	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-1	1935138-12	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-1	1935138-12	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-19-1	1935138-12	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-1	1935138-12	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-19-1	1935138-12	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-1	1935138-12	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-19-1	1935138-12	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-19-1	1935138-12	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-19-1	1935138-12	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-19-1	1935138-12	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-19-1	1935138-12	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-19-1	1935138-12	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-19-1	1935138-12	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-19-1	1935138-12	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-19-1	1935138-12	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-1	1935138-12	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-19-1	1935138-12	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-1	1935138-12	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L

SDG: 1935138

Analytical 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	1935138-12	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-1	1935138-12	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-1	1935138-12	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-1	1935138-12	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-1	1935138-12	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-1	1935138-12	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-1	1935138-12	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-19-1	1935138-12	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-19-1	1935138-12	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-1	1935138-12	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-1	1935138-12	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-1	1935138-12	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-1	1935138-12	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-1	1935138-12	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-19-1	1935138-12	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-1	1935138-12	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-1	1935138-12	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-1	1935138-12	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-19-2	1935138-11	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-19-2	1935138-11	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L

SDG: 1935138

Analytical 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	1935138-11	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-2	1935138-11	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-19-2	1935138-11	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-19-2	1935138-11	cis-1,2-Dichloroethene	10/16/2019	0.32	Y		v j		0.50	0.27	ug/L
MW-19-2	1935138-11	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-2	1935138-11	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-19-2	1935138-11	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-19-2	1935138-11	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-19-2	1935138-11	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-19-2	1935138-11	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-2	1935138-11	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-2	1935138-11	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-2	1935138-11	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-2	1935138-11	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-19-2	1935138-11	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-19-2	1935138-11	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-19-2	1935138-11	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-19-2	1935138-11	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-19-2	1935138-11	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L

SDG: 1935138

Analytical 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	1935138-11	Chloroform	10/16/2019	1.9	Y		v		0.50	0.14	ug/L
MW-19-2	1935138-11	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-2	1935138-11	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-2	1935138-11	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
MW-19-2	1935138-11	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	Tetrachloroethene	10/16/2019	1.5	Y		v		0.50	0.23	ug/L
MW-19-2	1935138-11	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-19-2	1935138-11	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-2	1935138-11	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-19-2	1935138-11	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-2	1935138-11	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-2	1935138-11	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-2	1935138-11	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-19-2	1935138-11	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-2	1935138-11	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-19-2	1935138-11	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-2	1935138-11	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-2	1935138-11	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-2	1935138-11	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-19-2	1935138-11	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

Analytical 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	1935138-11	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-19-2	1935138-11	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-2	1935138-11	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-2	1935138-11	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-19-2	1935138-11	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-19-2	1935138-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-2	1935138-11	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-2	1935138-11	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-2	1935138-11	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-19-2	1935138-11	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-19-2	1935138-11	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-19-2	1935138-11	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-2	1935138-11	Trichloroethene	10/16/2019	0.76	Y		v		0.50	0.19	ug/L
MW-19-2	1935138-11	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-19-2	1935138-11	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-2	1935138-11	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-2	1935138-11	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-19-2	1935138-11	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-2	1935138-11	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-2	1935138-11	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-2	1935138-11	1-Chlorobutane	10/16/2019	0	Y		v				ug/L

SDG: 1935138

Analytical 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	1935138-11	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-2	1935138-11	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-2	1935138-11	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-19-2	1935138-11	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-2	1935138-11	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-2	1935138-11	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-3	1935138-10	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-19-3	1935138-10	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-19-3	1935138-10	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-3	1935138-10	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-3	1935138-10	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-3	1935138-10	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-3	1935138-10	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-19-3	1935138-10	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-3	1935138-10	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-19-3	1935138-10	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-19-3	1935138-10	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-3	1935138-10	Chloroform	10/16/2019	2.5	Y		v		0.50	0.14	ug/L
MW-19-3	1935138-10	Trichloroethene	10/16/2019	0.24	Y		v j		0.50	0.19	ug/L
MW-19-3	1935138-10	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

Analytical 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	1935138-10	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-19-3	1935138-10	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-3	1935138-10	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-19-3	1935138-10	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-19-3	1935138-10	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-19-3	1935138-10	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-3	1935138-10	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-3	1935138-10	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-19-3	1935138-10	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-3	1935138-10	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-3	1935138-10	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-3	1935138-10	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-19-3	1935138-10	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-3	1935138-10	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-19-3	1935138-10	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-3	1935138-10	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-19-3	1935138-10	Nitrobenzene	10/16/2019	0	Y		v				ug/L

SDG: 1935138

Analytical 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	1935138-10	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-19-3	1935138-10	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	Tetrachloroethene	10/16/2019	0.59	Y		v		0.50	0.23	ug/L
MW-19-3	1935138-10	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-3	1935138-10	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-3	1935138-10	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-19-3	1935138-10	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-3	1935138-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-3	1935138-10	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-3	1935138-10	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-3	1935138-10	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-3	1935138-10	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-3	1935138-10	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-3	1935138-10	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-19-3	1935138-10	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-19-3	1935138-10	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-3	1935138-10	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-3	1935138-10	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-19-3	1935138-10	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-19-3	1935138-10	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L

SDG: 1935138

Analytical 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	1935138-10	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-19-3	1935138-10	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-3	1935138-10	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-19-3	1935138-10	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-3	1935138-10	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-19-3	1935138-10	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-3	1935138-10	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
MW-19-3	1935138-10	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-3	1935138-10	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-19-3	1935138-10	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-19-3	1935138-10	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-3	1935138-10	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-3	1935138-10	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-19-3	1935138-10	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-3	1935138-10	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-19-3	1935138-10	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-3	1935138-10	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-3	1935138-10	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-3	1935138-10	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-19-4	1935138-08	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-19-4	1935138-08	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-4	1935138-08	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

Analytical 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	1935138-08	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-4	1935138-08	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-19-4	1935138-08	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-4	1935138-08	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-19-4	1935138-08	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-19-4	1935138-08	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-19-4	1935138-08	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-4	1935138-08	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
MW-19-4	1935138-08	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-19-4	1935138-08	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-19-4	1935138-08	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-4	1935138-08	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-4	1935138-08	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-4	1935138-08	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-19-4	1935138-08	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-4	1935138-08	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-4	1935138-08	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-19-4	1935138-08	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L

SDG: 1935138

Analytical 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	1935138-08	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-4	1935138-08	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-19-4	1935138-08	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-19-4	1935138-08	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-19-4	1935138-08	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-4	1935138-08	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-4	1935138-08	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-4	1935138-08	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-4	1935138-08	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-4	1935138-08	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-19-4	1935138-08	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-4	1935138-08	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-19-4	1935138-08	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-19-4	1935138-08	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-4	1935138-08	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-19-4	1935138-08	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-19-4	1935138-08	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-19-4	1935138-08	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-4	1935138-08	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L

SDG: 1935138

Analytical 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	1935138-08	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-4	1935138-08	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-19-4	1935138-08	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-4	1935138-08	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-4	1935138-08	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-19-4	1935138-08	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-4	1935138-08	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-4	1935138-08	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-19-4	1935138-08	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-19-4	1935138-08	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-19-4	1935138-08	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-4	1935138-08	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-4	1935138-08	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-19-4	1935138-08	Chloroform	10/16/2019	0.7	Y		v		0.50	0.14	ug/L
MW-19-4	1935138-08	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-4	1935138-08	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-4	1935138-08	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-19-4	1935138-08	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-4	1935138-08	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-4	1935138-08	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-4	1935138-08	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	Tetrachloroethene	10/16/2019	0.3	Y		v j		0.50	0.23	ug/L
MW-19-4	1935138-08	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L

SDG: 1935138

Analytical 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	1935138-08	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-4	1935138-08	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-4	1935138-08	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-19-4	1935138-08	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-4	1935138-08	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-4	1935138-08	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-5	1935138-07	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-19-5	1935138-07	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-19-5	1935138-07	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-19-5	1935138-07	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-5	1935138-07	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-5	1935138-07	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-5	1935138-07	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-5	1935138-07	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-19-5	1935138-07	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-5	1935138-07	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-5	1935138-07	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L

SDG: 1935138

Analytical 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	1935138-07	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-19-5	1935138-07	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-5	1935138-07	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-19-5	1935138-07	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-5	1935138-07	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-19-5	1935138-07	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-19-5	1935138-07	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-19-5	1935138-07	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-5	1935138-07	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-5	1935138-07	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-19-5	1935138-07	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-5	1935138-07	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-19-5	1935138-07	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-5	1935138-07	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-19-5	1935138-07	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-5	1935138-07	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-19-5	1935138-07	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-5	1935138-07	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-19-5	1935138-07	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L

SDG: 1935138

Analytical 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	1935138-07	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-19-5	1935138-07	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-19-5	1935138-07	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-5	1935138-07	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-19-5	1935138-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-5	1935138-07	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
MW-19-5	1935138-07	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-19-5	1935138-07	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-19-5	1935138-07	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-19-5	1935138-07	Chloroform	10/16/2019	2.8	Y		v		0.50	0.14	ug/L
MW-19-5	1935138-07	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-19-5	1935138-07	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-19-5	1935138-07	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-5	1935138-07	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-19-5	1935138-07	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-19-5	1935138-07	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-5	1935138-07	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-5	1935138-07	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-5	1935138-07	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-19-5	1935138-07	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L

SDG: 1935138

Analytical 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	1935138-07	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-19-5	1935138-07	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-19-5	1935138-07	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-5	1935138-07	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-19-5	1935138-07	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-19-5	1935138-07	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-19-5	1935138-07	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-19-5	1935138-07	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-19-5	1935138-07	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-19-5	1935138-07	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-19-5	1935138-07	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-19-5	1935138-07	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-19-5	1935138-07	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-19-5	1935138-07	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-19-5	1935138-07	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-19-5	1935138-07	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-19-5	1935138-07	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-2	1935138-06	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-20-2	1935138-06	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-20-2	1935138-06	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-2	1935138-06	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L

SDG: 1935138

Analytical 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	1935138-06	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-2	1935138-06	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-2	1935138-06	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-20-2	1935138-06	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-20-2	1935138-06	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-20-2	1935138-06	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-20-2	1935138-06	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-2	1935138-06	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
MW-20-2	1935138-06	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-2	1935138-06	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-2	1935138-06	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-20-2	1935138-06	Tetrachloroethene	10/16/2019	0.26	Y		v j		0.50	0.23	ug/L
MW-20-2	1935138-06	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-2	1935138-06	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-2	1935138-06	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-20-2	1935138-06	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-20-2	1935138-06	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-20-2	1935138-06	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	Trichloroethene	10/16/2019	0.55	Y		v		0.50	0.19	ug/L
MW-20-2	1935138-06	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-20-2	1935138-06	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L

SDG: 1935138

Analytical 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	1935138-06	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-20-2	1935138-06	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-20-2	1935138-06	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-20-2	1935138-06	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-20-2	1935138-06	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-20-2	1935138-06	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-20-2	1935138-06	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-20-2	1935138-06	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-20-2	1935138-06	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-2	1935138-06	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-2	1935138-06	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-20-2	1935138-06	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-20-2	1935138-06	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-20-2	1935138-06	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-20-2	1935138-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-2	1935138-06	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-2	1935138-06	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-20-2	1935138-06	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-20-2	1935138-06	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L

SDG: 1935138

Analytical 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	1935138-06	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-2	1935138-06	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-20-2	1935138-06	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-2	1935138-06	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-2	1935138-06	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-2	1935138-06	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-2	1935138-06	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-20-2	1935138-06	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-2	1935138-06	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-20-2	1935138-06	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-20-2	1935138-06	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-2	1935138-06	Chloroform	10/16/2019	0.87	Y		v		0.50	0.14	ug/L
MW-20-2	1935138-06	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-2	1935138-06	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-2	1935138-06	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-20-2	1935138-06	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-2	1935138-06	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-2	1935138-06	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-2	1935138-06	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L

SDG: 1935138

Analytical 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	1935138-06	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-2	1935138-06	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-2	1935138-06	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-2	1935138-06	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-20-2	1935138-06	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-2	1935138-06	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-3	1935138-05	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-3	1935138-05	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-3	1935138-05	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-20-3	1935138-05	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-20-3	1935138-05	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-20-3	1935138-05	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-20-3	1935138-05	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-20-3	1935138-05	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-20-3	1935138-05	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-3	1935138-05	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-20-3	1935138-05	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-3	1935138-05	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-3	1935138-05	Tetrachloroethene	10/16/2019	0.37	Y		v j		0.50	0.23	ug/L
MW-20-3	1935138-05	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-3	1935138-05	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-3	1935138-05	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L

SDG: 1935138

Analytical 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	1935138-05	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-20-3	1935138-05	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-3	1935138-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-3	1935138-05	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-3	1935138-05	Styrene	10/16/2019	0.32	Y		v j		0.50	0.12	ug/L
MW-20-3	1935138-05	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-3	1935138-05	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-3	1935138-05	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-20-3	1935138-05	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-3	1935138-05	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-20-3	1935138-05	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-20-3	1935138-05	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-20-3	1935138-05	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-20-3	1935138-05	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-20-3	1935138-05	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L

SDG: 1935138

Analytical 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	1935138-05	Acrylonitrile	10/16/2019	1.9	Y		v j		5.0	1.5	ug/L
MW-20-3	1935138-05	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-3	1935138-05	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-20-3	1935138-05	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-20-3	1935138-05	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-3	1935138-05	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-20-3	1935138-05	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-3	1935138-05	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-3	1935138-05	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-20-3	1935138-05	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-3	1935138-05	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-3	1935138-05	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-3	1935138-05	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-3	1935138-05	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-20-3	1935138-05	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-3	1935138-05	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-20-3	1935138-05	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-3	1935138-05	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L

SDG: 1935138

Analytical 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	1935138-05	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-20-3	1935138-05	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-3	1935138-05	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-20-3	1935138-05	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-20-3	1935138-05	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-3	1935138-05	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-20-3	1935138-05	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-3	1935138-05	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-20-3	1935138-05	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-3	1935138-05	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-20-3	1935138-05	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-3	1935138-05	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-20-3	1935138-05	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-3	1935138-05	Carbon disulfide	10/16/2019	0.59	Y		v j		1.0	0.48	ug/L
MW-20-3	1935138-05	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-3	1935138-05	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-4	1935138-03	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-4	1935138-03	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-20-4	1935138-03	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-4	1935138-03	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-4	1935138-03	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L

SDG: 1935138

Analytical 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	1935138-03	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-4	1935138-03	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-4	1935138-03	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-4	1935138-03	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-20-4	1935138-03	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-4	1935138-03	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-20-4	1935138-03	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-20-4	1935138-03	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-20-4	1935138-03	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-4	1935138-03	Carbon disulfide	10/16/2019	0.69	Y		v j		1.0	0.48	ug/L
MW-20-4	1935138-03	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-20-4	1935138-03	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-4	1935138-03	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-20-4	1935138-03	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-20-4	1935138-03	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-4	1935138-03	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-20-4	1935138-03	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-20-4	1935138-03	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-4	1935138-03	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L

SDG: 1935138

Analytical 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	1935138-03	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-4	1935138-03	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-4	1935138-03	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-20-4	1935138-03	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-20-4	1935138-03	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-20-4	1935138-03	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-20-4	1935138-03	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-4	1935138-03	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-20-4	1935138-03	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-4	1935138-03	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-4	1935138-03	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-4	1935138-03	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-20-4	1935138-03	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-4	1935138-03	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-20-4	1935138-03	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-20-4	1935138-03	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-20-4	1935138-03	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-4	1935138-03	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-20-4	1935138-03	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-4	1935138-03	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-20-4	1935138-03	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-20-4	1935138-03	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

Analytical 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	1935138-03	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
MW-20-4	1935138-03	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-20-4	1935138-03	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-4	1935138-03	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-20-4	1935138-03	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-4	1935138-03	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-4	1935138-03	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-20-4	1935138-03	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-20-4	1935138-03	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-20-4	1935138-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-4	1935138-03	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-4	1935138-03	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-4	1935138-03	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-4	1935138-03	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-4	1935138-03	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-4	1935138-03	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-4	1935138-03	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-4	1935138-03	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-20-4	1935138-03	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-4	1935138-03	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-4	1935138-03	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-4	1935138-03	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L

SDG: 1935138

Analytical 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	1935138-03	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-20-4	1935138-03	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-4	1935138-03	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-4	1935138-03	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-4	1935138-03	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
MW-20-5	1935138-02	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
MW-20-5	1935138-02	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-5	1935138-02	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-20-5	1935138-02	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
MW-20-5	1935138-02	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-5	1935138-02	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
MW-20-5	1935138-02	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
MW-20-5	1935138-02	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-5	1935138-02	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-5	1935138-02	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-5	1935138-02	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-5	1935138-02	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
MW-20-5	1935138-02	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
MW-20-5	1935138-02	2-Nitropropane	10/16/2019	0	Y		v				ug/L
MW-20-5	1935138-02	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

Analytical 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	1935138-02	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
MW-20-5	1935138-02	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
MW-20-5	1935138-02	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
MW-20-5	1935138-02	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
MW-20-5	1935138-02	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
MW-20-5	1935138-02	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
MW-20-5	1935138-02	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-5	1935138-02	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-5	1935138-02	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-5	1935138-02	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
MW-20-5	1935138-02	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-5	1935138-02	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-5	1935138-02	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
MW-20-5	1935138-02	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
MW-20-5	1935138-02	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-5	1935138-02	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	Carbon disulfide	10/16/2019	0.65	Y		v j		1.0	0.48	ug/L
MW-20-5	1935138-02	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-5	1935138-02	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L

SDG: 1935138

Analytical 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	1935138-02	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
MW-20-5	1935138-02	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
MW-20-5	1935138-02	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
MW-20-5	1935138-02	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
MW-20-5	1935138-02	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
MW-20-5	1935138-02	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
MW-20-5	1935138-02	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
MW-20-5	1935138-02	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
MW-20-5	1935138-02	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-5	1935138-02	Nitrobenzene	10/16/2019	0	Y		v				ug/L
MW-20-5	1935138-02	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
MW-20-5	1935138-02	Styrene	10/16/2019	0.19	Y		v j		0.50	0.12	ug/L
MW-20-5	1935138-02	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-5	1935138-02	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-5	1935138-02	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
MW-20-5	1935138-02	1,1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-5	1935138-02	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L

SDG: 1935138

Analytical 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	1935138-02	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-5	1935138-02	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-5	1935138-02	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
MW-20-5	1935138-02	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
MW-20-5	1935138-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
MW-20-5	1935138-02	Methyl acrylate	10/16/2019	0	Y		v				ug/L
MW-20-5	1935138-02	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
MW-20-5	1935138-02	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
MW-20-5	1935138-02	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
MW-20-5	1935138-02	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
MW-20-5	1935138-02	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
MW-20-5	1935138-02	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
MW-20-5	1935138-02	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
MW-20-5	1935138-02	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
MW-20-5	1935138-02	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
MW-20-5	1935138-02	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
SB-1-101419	1935138-14	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
SB-1-101419	1935138-14	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
SB-1-101419	1935138-14	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
SB-1-101419	1935138-14	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
SB-1-101419	1935138-14	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L

SDG: 1935138

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-1-101419	1935138-14	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
SB-1-101419	1935138-14	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
SB-1-101419	1935138-14	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
SB-1-101419	1935138-14	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
SB-1-101419	1935138-14	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
SB-1-101419	1935138-14	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
SB-1-101419	1935138-14	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
SB-1-101419	1935138-14	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
SB-1-101419	1935138-14	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
SB-1-101419	1935138-14	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
SB-1-101419	1935138-14	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
SB-1-101419	1935138-14	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
SB-1-101419	1935138-14	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
SB-1-101419	1935138-14	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
SB-1-101419	1935138-14	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
SB-1-101419	1935138-14	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
SB-1-101419	1935138-14	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
SB-1-101419	1935138-14	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
SB-1-101419	1935138-14	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
SB-1-101419	1935138-14	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L

SDG: 1935138

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-1-101419	1935138-14	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
SB-1-101419	1935138-14	2-Nitropropane	10/16/2019	0	Y		v				ug/L
SB-1-101419	1935138-14	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
SB-1-101419	1935138-14	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
SB-1-101419	1935138-14	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
SB-1-101419	1935138-14	Nitrobenzene	10/16/2019	0	Y		v				ug/L
SB-1-101419	1935138-14	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
SB-1-101419	1935138-14	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
SB-1-101419	1935138-14	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
SB-1-101419	1935138-14	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
SB-1-101419	1935138-14	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
SB-1-101419	1935138-14	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
SB-1-101419	1935138-14	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
SB-1-101419	1935138-14	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
SB-1-101419	1935138-14	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
SB-1-101419	1935138-14	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
SB-1-101419	1935138-14	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L

SDG: 1935138

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-1-101419	1935138-14	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
SB-1-101419	1935138-14	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
SB-1-101419	1935138-14	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
SB-1-101419	1935138-14	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
SB-1-101419	1935138-14	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
SB-1-101419	1935138-14	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
SB-1-101419	1935138-14	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
SB-1-101419	1935138-14	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
SB-1-101419	1935138-14	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
SB-1-101419	1935138-14	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
SB-1-101419	1935138-14	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
SB-1-101419	1935138-14	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
SB-1-101419	1935138-14	Methyl acrylate	10/16/2019	0	Y		v				ug/L
SB-1-101419	1935138-14	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
SB-1-101419	1935138-14	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
SB-1-101419	1935138-14	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
SB-1-101419	1935138-14	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
SB-1-101419	1935138-14	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
SB-1-101419	1935138-14	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L
SB-1-101419	1935138-14	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
SB-1-101419	1935138-14	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L

SDG: 1935138

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-1-101419	1935138-14	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
SB-1-101419	1935138-14	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
SB-1-101419	1935138-14	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
SB-1-101419	1935138-14	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
TB-1-101419	1935138-01	1,2,3-Trichloropropane	10/16/2019	1	Y		u		1.0	0.78	ug/L
TB-1-101419	1935138-01	1,1,1,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
TB-1-101419	1935138-01	1,2,3-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
TB-1-101419	1935138-01	t-Amyl Methyl ether	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
TB-1-101419	1935138-01	Methyl iodide	10/16/2019	2	Y		u	UJ	2.0	1.1	ug/L
TB-1-101419	1935138-01	Tetrachloroethene	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
TB-1-101419	1935138-01	Methyl ethyl ketone	10/16/2019	10	Y		u		10	3.3	ug/L
TB-1-101419	1935138-01	Trichlorofluoromethane	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	1,2,4-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
TB-1-101419	1935138-01	Methyl acrylate	10/16/2019	0	Y		v				ug/L
TB-1-101419	1935138-01	t-Butyl alcohol	10/16/2019	10	Y		u		10	9.4	ug/L
TB-1-101419	1935138-01	Trichloroethene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
TB-1-101419	1935138-01	n-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	1,2,4-Trichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	Vinyl chloride	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
TB-1-101419	1935138-01	p-Isopropyltoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	tert-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
TB-1-101419	1935138-01	1,1-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
TB-1-101419	1935138-01	Pentachloroethane	10/16/2019	2	Y		u		2.0	0.63	ug/L
TB-1-101419	1935138-01	Propionitrile	10/16/2019	20	Y		u		20	6.2	ug/L

SDG: 1935138

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-1-101419	1935138-01	Methacrylonitrile	10/16/2019	10	Y		u		10	2.3	ug/L
TB-1-101419	1935138-01	1,1-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
TB-1-101419	1935138-01	1,1-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.19	ug/L
TB-1-101419	1935138-01	1,1,2,2-Tetrachloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
TB-1-101419	1935138-01	Nitrobenzene	10/16/2019	0	Y		v				ug/L
TB-1-101419	1935138-01	o-Xylene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
TB-1-101419	1935138-01	sec-Butylbenzene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
TB-1-101419	1935138-01	1,1-Dichloropropanone	10/16/2019	0	Y		v				ug/L
TB-1-101419	1935138-01	n-Propylbenzene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
TB-1-101419	1935138-01	1,1,2-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
TB-1-101419	1935138-01	1,1,1-Trichloroethane	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
TB-1-101419	1935138-01	p- & m-Xylenes	10/16/2019	0.5	Y		u		0.50	0.34	ug/L
TB-1-101419	1935138-01	Styrene	10/16/2019	0.5	Y		u		0.50	0.12	ug/L
TB-1-101419	1935138-01	Benzene	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
TB-1-101419	1935138-01	trans-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
TB-1-101419	1935138-01	Naphthalene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
TB-1-101419	1935138-01	1,3,5-Trimethylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	Acrylonitrile	10/16/2019	5	Y		u		5.0	1.5	ug/L
TB-1-101419	1935138-01	trans-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
TB-1-101419	1935138-01	Allyl chloride	10/16/2019	5	Y		u		5.0	0.47	ug/L
TB-1-101419	1935138-01	1,2-Dichloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
TB-1-101419	1935138-01	Bromobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	cis-1,3-Dichloropropene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	Methyl methacrylate	10/16/2019	5	Y		u		5.0	1.2	ug/L
TB-1-101419	1935138-01	Bromochloromethane	10/16/2019	0.5	Y		u		0.50	0.27	ug/L

SDG: 1935138

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-1-101419	1935138-01	1,3-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.16	ug/L
TB-1-101419	1935138-01	Bromodichloromethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
TB-1-101419	1935138-01	Acetone	10/16/2019	10	Y		u		10	6.6	ug/L
TB-1-101419	1935138-01	Bromoform	10/16/2019	0.5	Y		u		0.50	0.46	ug/L
TB-1-101419	1935138-01	Chloromethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
TB-1-101419	1935138-01	Bromomethane	10/16/2019	0.5	Y		u		0.50	0.20	ug/L
TB-1-101419	1935138-01	Chloroform	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	Chloroethane	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
TB-1-101419	1935138-01	Methyl isobutyl ketone	10/16/2019	10	Y		u		10	2.4	ug/L
TB-1-101419	1935138-01	1,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	Chlorobenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	Carbon tetrachloride	10/16/2019	0.5	Y		u		0.50	0.17	ug/L
TB-1-101419	1935138-01	trans-1,4-Dichloro-2-butene	10/16/2019	5	Y		u		5.0	1.8	ug/L
TB-1-101419	1935138-01	Chloroacetonitrile	10/16/2019	0	Y		v				ug/L
TB-1-101419	1935138-01	cis-1,2-Dichloroethene	10/16/2019	0.5	Y		u		0.50	0.27	ug/L
TB-1-101419	1935138-01	Ethylbenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	Tetrahydrofuran	10/16/2019	20	Y		u		20	5.2	ug/L
TB-1-101419	1935138-01	1,2-Dibromoethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
TB-1-101419	1935138-01	Isopropylbenzene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	1,2-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
TB-1-101419	1935138-01	Ethyl methacrylate	10/16/2019	4	Y		u		4.0	1.3	ug/L
TB-1-101419	1935138-01	1,3-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.13	ug/L
TB-1-101419	1935138-01	Hexachloroethane	10/16/2019	0.5	Y		u		0.50	0.11	ug/L
TB-1-101419	1935138-01	Carbon disulfide	10/16/2019	1	Y		u		1.0	0.48	ug/L
TB-1-101419	1935138-01	Hexachlorobutadiene	10/16/2019	0.5	Y		u		0.50	0.20	ug/L

SDG: 1935138

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-1-101419	1935138-01	1,4-Dichlorobenzene	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	Methyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	1-Chlorobutane	10/16/2019	0	Y		v				ug/L
TB-1-101419	1935138-01	1,2-Dibromo-3-chloropropane	10/16/2019	1	Y		u		1.0	0.89	ug/L
TB-1-101419	1935138-01	2,2-Dichloropropane	10/16/2019	0.5	Y		u		0.50	0.18	ug/L
TB-1-101419	1935138-01	Ethyl t-butyl ether	10/16/2019	0.5	Y		u		0.50	0.32	ug/L
TB-1-101419	1935138-01	2-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.14	ug/L
TB-1-101419	1935138-01	Diethyl ether	10/16/2019	2	Y		u		2.0	0.33	ug/L
TB-1-101419	1935138-01	Methylene chloride	10/16/2019	0.5	Y		u		0.50	0.21	ug/L
TB-1-101419	1935138-01	Dichlorodifluoromethane	10/16/2019	0.5	Y		u		0.50	0.15	ug/L
TB-1-101419	1935138-01	2-Hexanone	10/16/2019	10	Y		u		10	5.0	ug/L
TB-1-101419	1935138-01	2-Nitropropane	10/16/2019	0	Y		v				ug/L
TB-1-101419	1935138-01	Dibromomethane	10/16/2019	0.5	Y		u		0.50	0.23	ug/L
TB-1-101419	1935138-01	4-Chlorotoluene	10/16/2019	0.5	Y		u		0.50	0.093	ug/L
TB-1-101419	1935138-01	Dibromochloromethane	10/16/2019	0.5	Y		u		0.50	0.22	ug/L
TB-1-101419	1935138-01	Toluene	10/16/2019	0.5	Y		u		0.50	0.17	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935353

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-2-101519	1935353-01	Water	10/15/19
MW-14-5	1935353-02	Water	10/15/19
MW-14-4	1935353-03	Water	10/15/19
MW-14-3	1935353-04	Water	10/15/19
MW-14-2	1935353-05	Water	10/15/19
MW-25-5	1935353-06	Water	10/15/19
MW-25-4	1935353-07	Water	10/15/19
MW-25-3	1935353-08	Water	10/15/19
DUP-3-4Q19	1935353-09	Water	10/15/19
MW-25-2	1935353-10	Water	10/15/19
MW-25-1	1935353-11	Water	10/15/19
EB-2-101519	1935353-12	Water	10/15/19
MW-14-5MS	1935353-02MS	Water	10/15/19
MW-14-5MSD	1935353-02MSD	Water	10/15/19

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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/18/19	Bromomethane	89.8	All samples in SDG 1935353	UJ (all non-detects)	P
10/18/19	Methyl iodide	48.4	All samples in SDG 1935353	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-2-101519 was identified as a trip blank. No contaminants were found.

Sample EB-2-101519 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-25-3 and DUP-3-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-25-3	DUP-3-4Q19	
Chloroform	0.41	0.75	59
Tetrachloroethene	50	1.5	100

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1935353

Sample	Compound	Flag	A or P	Reason
TB-2-101519 MW-14-5 MW-14-4 MW-14-3 MW-14-2 MW-25-5 MW-25-4 MW-25-3 DUP-3-4Q19 MW-25-2 MW-25-1 EB-2-101519	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1935353

No Sample Data Qualified in this SDG

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 20%. Y ² CV ≤ 30%
IV.	Continuing calibration	M	CCV ≤ 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	LC5
X.	Field duplicates	M	D=8+9
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

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

	Client ID	Lab ID	Matrix	Date
1	TB-2-101519	1935353-01	Water	10/15/19
2	MW-14-5	1935353-02	Water	10/15/19
3	MW-14-4	1935353-03	Water	10/15/19
4	MW-14-3	1935353-04	Water	10/15/19
5	MW-14-2	1935353-05	Water	10/15/19
6	MW-25-5	1935353-06	Water	10/15/19
7	MW-25-4	1935353-07	Water	10/15/19
8	MW-25-3	1935353-08	Water	10/15/19
9	DUP-3-4Q19	1935353-09	Water	10/15/19
10	MW-25-2	1935353-10	Water	10/15/19
11	MW-25-1	1935353-11	Water	10/15/19
12	EB-2-101519	1935353-12	Water	10/15/19
13	MW-14-5MS	1935353-02MS	Water	10/15/19
14	MW-14-5MSD	1935353-02MSD	Water	10/15/19

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC#: 46532B1

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
	8	9	
K	0.41	0.75	59
AA	0.50	1.5	100

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935353

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-5	1935353-02	Water	10/15/19
MW-14-4	1935353-03	Water	10/15/19
MW-14-3	1935353-04	Water	10/15/19
MW-14-2	1935353-05	Water	10/15/19
MW-25-5	1935353-06	Water	10/15/19
MW-25-4	1935353-07	Water	10/15/19
MW-25-3	1935353-08	Water	10/15/19
DUP-3-4Q19	1935353-09	Water	10/15/19
MW-25-2	1935353-10	Water	10/15/19
MW-25-1	1935353-11	Water	10/15/19
EB-2-101519	1935353-12	Water	10/15/19
MW-14-5MS	1935353-02MS	Water	10/15/19
MW-14-5MSD	1935353-02MSD	Water	10/15/19
MW-14-5DUP	1935353-02DUP	Water	10/15/19

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 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.

VI. Field Blanks

Sample EB-2-101519 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-25-3 and DUP-3-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-25-3	DUP-3-4Q19	
Chromium	1.9	3.9	69

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.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1935353

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1935353

No Sample Data Qualified in this SDG

LDC #: 46532B4a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935353

Level III

Laboratory: BC Laboratories, Inc.

Date: 12/4/19

Page: 1 of 1

Reviewer: *ATV*2nd Reviewer: *[Signature]***METHOD:** Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required.
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=11
VII.	Matrix Spike/Matrix Spike Duplicates	A	(12,13)
VIII.	Duplicate sample analysis	A	14
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(7,8)
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

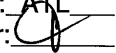
D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-14-5	1935353-02	Water	10/15/19
2	MW-14-4	1935353-03	Water	10/15/19
3	MW-14-3	1935353-04	Water	10/15/19
4	MW-14-2	1935353-05	Water	10/15/19
5	MW-25-5	1935353-06	Water	10/15/19
6	MW-25-4	1935353-07	Water	10/15/19
7	MW-25-3	1935353-08	Water	10/15/19
8	DUP-3-4Q19	1935353-09	Water	10/15/19
9	MW-25-2	1935353-10	Water	10/15/19
10	MW-25-1	1935353-11	Water	10/15/19
11	EB-2-101519	1935353-12	Water	10/15/19
12	MW-14-5MS	1935353-02MS	Water	10/15/19
13	MW-14-5MSD	1935353-02MSD	Water	10/15/19
14	MW-14-5DUP	1935353-02DUP	Water	10/15/19
15				

LDC#: 46532B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	7	8		
Chromium	1.9	3.9	69	

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935353

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-5	1935353-02	Water	10/15/19
MW-14-4	1935353-03	Water	10/15/19
MW-14-3	1935353-04	Water	10/15/19
MW-14-2	1935353-05	Water	10/15/19
MW-25-5	1935353-06	Water	10/15/19
MW-25-4	1935353-07	Water	10/15/19
MW-25-3	1935353-08	Water	10/15/19
DUP-3-4Q19	1935353-09	Water	10/15/19
MW-25-2	1935353-10	Water	10/15/19
MW-25-1	1935353-11	Water	10/15/19
EB-2-101519	1935353-12	Water	10/15/19
MW-14-5MS	1935353-02MS	Water	10/15/19
MW-14-5MSD	1935353-02MSD	Water	10/15/19
MW-14-5DUP	1935353-02DUP	Water	10/15/19
MW-25-1MS	1935353-11MS	Water	10/15/19
MW-25-1MSD	1935353-11MSD	Water	10/15/19
MW-25-1DUP	1935353-11DUP	Water	10/15/19

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) Method 218.6
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-2-101519 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-25-3 and DUP-3-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-25-3	DUP-3-4Q19	
Hexavalent chromium	0.0025 mg/L	0.0025 mg/L	0
Perchlorate	9.2 ug/L	9.3 ug/L	1

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.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1935353

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1935353

No Sample Data Qualified in this SDG

LDC #: 46532B6

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935353

Level III

Laboratory: BC Laboratories, Inc.Date: 12/4/19Page: 1 of 1Reviewer: ATL2nd Reviewer: ATL**METHOD: (Analyte) Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0)**

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB=11
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12,13), (15,16)
VII.	Duplicate sample analysis	A	14, 17
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(7,8)
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	1935353-02	Water	10/15/19
2	MW-14-4	1935353-03	Water	10/15/19
3	MW-14-3	1935353-04	Water	10/15/19
4	MW-14-2	1935353-05	Water	10/15/19
5	MW-25-5	1935353-06	Water	10/15/19
6	MW-25-4	1935353-07	Water	10/15/19
7	MW-25-3	1935353-08	Water	10/15/19
8	DUP-3-4Q19	1935353-09	Water	10/15/19
9	MW-25-2	1935353-10	Water	10/15/19
10	MW-25-1	1935353-11	Water	10/15/19
11	EB-2-101519	1935353-12	Water	10/15/19
12	MW-14-5MS	1935353-02MS	Water	10/15/19
13	MW-14-5MSD	1935353-02MSD	Water	10/15/19
14	MW-14-5DUP	1935353-02DUP	Water	10/15/19
15	MW-25-1MS	1935353-11MS	Water	10/15/19
16	MW-25-1MSD	1935353-11MSD	Water	10/15/19
17	MW-25-1DUP	1935353-11DUP	Water	10/15/19

**VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference**

All circled methods are applicable to each sample.

Sample ID	Parameter
1211	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
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
1217	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
12,13,14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

LDC# 46532B6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	7	8		
Hexavalent Chromium	0.0025	0.0025	0	
Perchlorate (ug/L)	9.2	9.3	1	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46532B6.wpd

NASA JPL, 4Q2019 - LDC#46532

SDG: 1935353

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-3-4Q19	1935353-09	Total Recoverable Chromium	10/17/2019	3.9	Y	y	v		3.0	0.50	ug/L
EB-2-101519	1935353-12	Total Recoverable Chromium	10/17/2019	3	Y	n	u		3.0	0.50	ug/L
MW-14-2	1935353-05	Total Recoverable Chromium	10/17/2019	3	Y	n	u		3.0	0.50	ug/L
MW-14-3	1935353-04	Total Recoverable Chromium	10/17/2019	3	Y	n	u		3.0	0.50	ug/L
MW-14-4	1935353-03	Total Recoverable Chromium	10/17/2019	1.9	Y	y	v j		3.0	0.50	ug/L
MW-14-5	1935353-02	Total Recoverable Chromium	10/17/2019	3	Y	n	u		3.0	0.50	ug/L
MW-25-1	1935353-11	Total Recoverable Chromium	10/17/2019	1.3	Y	y	v j		3.0	0.50	ug/L
MW-25-2	1935353-10	Total Recoverable Chromium	10/17/2019	1.2	Y	y	v j		3.0	0.50	ug/L
MW-25-3	1935353-08	Total Recoverable Chromium	10/17/2019	1.9	Y	y	v j		3.0	0.50	ug/L
MW-25-4	1935353-07	Total Recoverable Chromium	10/17/2019	0.92	Y	y	v j		3.0	0.50	ug/L
MW-25-5	1935353-06	Total Recoverable Chromium	10/17/2019	3	Y	n	u		3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-3-4Q19	1935353-09	Hexavalent Chromium	10/18/2019	0.0025	Y	y	v		0.0002	0.0000	mg/L
EB-2-101519	1935353-12	Hexavalent Chromium	10/18/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-14-2	1935353-05	Hexavalent Chromium	10/18/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-14-3	1935353-04	Hexavalent Chromium	10/18/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-14-4	1935353-03	Hexavalent Chromium	10/18/2019	0.0021	Y	y	v		0.0002	0.0000	mg/L
MW-14-5	1935353-02	Hexavalent Chromium	10/18/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-25-1	1935353-11	Hexavalent Chromium	10/18/2019	0.0003	Y	y	v		0.0002	0.0000	mg/L
MW-25-2	1935353-10	Hexavalent Chromium	10/18/2019	0.001	Y	y	v		0.0002	0.0000	mg/L
MW-25-3	1935353-08	Hexavalent Chromium	10/18/2019	0.0025	Y	y	v		0.0002	0.0000	mg/L
MW-25-4	1935353-07	Hexavalent Chromium	10/18/2019	#####	Y	y	v		0.0002	0.0000	mg/L

SDG: 1935353

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1935353-06	Hexavalent Chromium	10/18/2019	#####	Y	y	v j		0.0002	0.0000	mg/L

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-3-4Q19	1935353-09	Perchlorate	11/3/2019	9.3	Y	y	v		4.0	0.76	ug/L
EB-2-101519	1935353-12	Perchlorate	11/3/2019	4	Y	n	u		4.0	0.76	ug/L
MW-14-2	1935353-05	Perchlorate	11/3/2019	3.5	Y	y	v j		4.0	0.76	ug/L
MW-14-3	1935353-04	Perchlorate	11/3/2019	4	Y	y	v		4.0	0.76	ug/L
MW-14-4	1935353-03	Perchlorate	11/9/2019	4.1	Y	y	v		4.0	0.76	ug/L
MW-14-5	1935353-02	Perchlorate	11/3/2019	4	Y	n	u		4.0	0.76	ug/L
MW-25-1	1935353-11	Perchlorate	11/3/2019	7.1	Y	y	v		4.0	0.76	ug/L
MW-25-2	1935353-10	Perchlorate	11/3/2019	13	Y	y	v		4.0	0.76	ug/L
MW-25-3	1935353-08	Perchlorate	11/3/2019	9.2	Y	y	v		4.0	0.76	ug/L
MW-25-4	1935353-07	Perchlorate	11/3/2019	7.8	Y	y	v		4.0	0.76	ug/L
MW-25-5	1935353-06	Perchlorate	11/3/2019	4	Y	n	u		4.0	0.76	ug/L

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-3-4Q19	1935353-09	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-3-4Q19	1935353-09	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-3-4Q19	1935353-09	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
DUP-3-4Q19	1935353-09	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
DUP-3-4Q19	1935353-09	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-3-4Q19	1935353-09	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-3-4Q19	1935353-09	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-3-4Q19	1935353-09	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L

SDG: 1935353

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-3-4Q19	1935353-09	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-3-4Q19	1935353-09	Chloroform	10/18/2019	0.75	Y	y	v		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-3-4Q19	1935353-09	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-4Q19	1935353-09	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-3-4Q19	1935353-09	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-4Q19	1935353-09	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-3-4Q19	1935353-09	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-4Q19	1935353-09	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-4Q19	1935353-09	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-4Q19	1935353-09	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-4Q19	1935353-09	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-3-4Q19	1935353-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-4Q19	1935353-09	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-3-4Q19	1935353-09	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935353

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-3-4Q19	1935353-09	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-3-4Q19	1935353-09	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-4Q19	1935353-09	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
DUP-3-4Q19	1935353-09	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-3-4Q19	1935353-09	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-3-4Q19	1935353-09	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-3-4Q19	1935353-09	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-3-4Q19	1935353-09	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-3-4Q19	1935353-09	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-3-4Q19	1935353-09	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
DUP-3-4Q19	1935353-09	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-3-4Q19	1935353-09	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-4Q19	1935353-09	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
DUP-3-4Q19	1935353-09	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-3-4Q19	1935353-09	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-3-4Q19	1935353-09	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-4Q19	1935353-09	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-3-4Q19	1935353-09	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-3-4Q19	1935353-09	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935353

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-3-4Q19	1935353-09	Tetrachloroethene	10/18/2019	1.5	Y	y	v		0.50	0.23	ug/L
DUP-3-4Q19	1935353-09	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-3-4Q19	1935353-09	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-4Q19	1935353-09	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-3-4Q19	1935353-09	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-3-4Q19	1935353-09	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-3-4Q19	1935353-09	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-3-4Q19	1935353-09	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-3-4Q19	1935353-09	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
DUP-3-4Q19	1935353-09	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-3-4Q19	1935353-09	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-3-4Q19	1935353-09	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
DUP-3-4Q19	1935353-09	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-3-4Q19	1935353-09	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-3-4Q19	1935353-09	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-3-4Q19	1935353-09	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
DUP-3-4Q19	1935353-09	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
DUP-3-4Q19	1935353-09	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-3-4Q19	1935353-09	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
DUP-3-4Q19	1935353-09	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-3-4Q19	1935353-09	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-3-4Q19	1935353-09	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L

SDG: 1935353

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-3-4Q19	1935353-09	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
DUP-3-4Q19	1935353-09	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
DUP-3-4Q19	1935353-09	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
DUP-3-4Q19	1935353-09	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-101519	1935353-12	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-101519	1935353-12	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-101519	1935353-12	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-2-101519	1935353-12	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-2-101519	1935353-12	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-101519	1935353-12	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-101519	1935353-12	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-101519	1935353-12	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-101519	1935353-12	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-101519	1935353-12	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-101519	1935353-12	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-101519	1935353-12	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-101519	1935353-12	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935353

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-2-101519	1935353-12	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
EB-2-101519	1935353-12	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-101519	1935353-12	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
EB-2-101519	1935353-12	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
EB-2-101519	1935353-12	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
EB-2-101519	1935353-12	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
EB-2-101519	1935353-12	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-101519	1935353-12	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
EB-2-101519	1935353-12	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-2-101519	1935353-12	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-101519	1935353-12	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-101519	1935353-12	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-2-101519	1935353-12	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
EB-2-101519	1935353-12	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
EB-2-101519	1935353-12	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-2-101519	1935353-12	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
EB-2-101519	1935353-12	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-101519	1935353-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-2-101519	1935353-12	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L

SDG: 1935353

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-2-101519	1935353-12	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
EB-2-101519	1935353-12	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
EB-2-101519	1935353-12	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
EB-2-101519	1935353-12	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
EB-2-101519	1935353-12	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
EB-2-101519	1935353-12	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
EB-2-101519	1935353-12	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
EB-2-101519	1935353-12	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-101519	1935353-12	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-101519	1935353-12	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
EB-2-101519	1935353-12	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
EB-2-101519	1935353-12	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
EB-2-101519	1935353-12	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
EB-2-101519	1935353-12	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-2-101519	1935353-12	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
EB-2-101519	1935353-12	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
EB-2-101519	1935353-12	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
EB-2-101519	1935353-12	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-101519	1935353-12	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-2-101519	1935353-12	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-2-101519	1935353-12	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-2-101519	1935353-12	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935353

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-2-101519	1935353-12	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-2-101519	1935353-12	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-101519	1935353-12	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-2-101519	1935353-12	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-2-101519	1935353-12	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-2-101519	1935353-12	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-2-101519	1935353-12	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-2-101519	1935353-12	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-2-101519	1935353-12	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-2-101519	1935353-12	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-2-101519	1935353-12	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-2-101519	1935353-12	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-2-101519	1935353-12	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-2-101519	1935353-12	Chloroform	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-14-2	1935353-05	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1935353-05	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-14-2	1935353-05	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-14-2	1935353-05	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1935353-05	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-14-2	1935353-05	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1935353-05	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1935353-05	Chloroform	10/18/2019	0.58	Y	y	v		0.50	0.14	ug/L

SDG: 1935353

Analytical 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	1935353-05	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-2	1935353-05	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1935353-05	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-2	1935353-05	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-2	1935353-05	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-2	1935353-05	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1935353-05	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1935353-05	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1935353-05	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1935353-05	1,1-Dichloroethane	10/18/2019	0.15	Y	y	v j		0.50	0.15	ug/L
MW-14-2	1935353-05	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1935353-05	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-2	1935353-05	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-14-2	1935353-05	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1935353-05	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1935353-05	Trichloroethene	10/18/2019	1.5	Y	y	v		0.50	0.19	ug/L
MW-14-2	1935353-05	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-14-2	1935353-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1935353-05	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-2	1935353-05	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1935353-05	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935353

Analytical 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	1935353-05	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L	
MW-14-2	1935353-05	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L	
MW-14-2	1935353-05	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L	
MW-14-2	1935353-05	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L	
MW-14-2	1935353-05	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L	
MW-14-2	1935353-05	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L	
MW-14-2	1935353-05	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L	
MW-14-2	1935353-05	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L	
MW-14-2	1935353-05	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L	
MW-14-2	1935353-05	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L	
MW-14-2	1935353-05	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L	
MW-14-2	1935353-05	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L	
MW-14-2	1935353-05	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L	
MW-14-2	1935353-05	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L	
MW-14-2	1935353-05	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L	
MW-14-2	1935353-05	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L	
MW-14-2	1935353-05	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L	
MW-14-2	1935353-05	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L	
MW-14-2	1935353-05	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L	
MW-14-2	1935353-05	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L	
MW-14-2	1935353-05	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L	
MW-14-2	1935353-05	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L	
MW-14-2	1935353-05	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L	
MW-14-2	1935353-05	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L	
MW-14-2	1935353-05	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L	

SDG: 1935353

Analytical 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	1935353-05	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-2	1935353-05	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1935353-05	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-14-2	1935353-05	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-14-2	1935353-05	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-14-2	1935353-05	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-14-2	1935353-05	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-14-2	1935353-05	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1935353-05	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1935353-05	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-2	1935353-05	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-2	1935353-05	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-2	1935353-05	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1935353-05	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-2	1935353-05	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-2	1935353-05	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1935353-05	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-2	1935353-05	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-2	1935353-05	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1935353-05	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-2	1935353-05	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-2	1935353-05	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935353

Analytical 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	1935353-05	Tetrachloroethene	10/18/2019	0.29	Y	y	v j		0.50	0.23	ug/L
MW-14-2	1935353-05	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-2	1935353-05	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-3	1935353-04	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1935353-04	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1935353-04	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-3	1935353-04	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1935353-04	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1935353-04	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-3	1935353-04	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1935353-04	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1935353-04	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1935353-04	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1935353-04	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1935353-04	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L

SDG: 1935353

Analytical 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	1935353-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1935353-04	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1935353-04	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-14-3	1935353-04	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-14-3	1935353-04	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-14-3	1935353-04	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1935353-04	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-14-3	1935353-04	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-14-3	1935353-04	1,1-Dichloroethane	10/18/2019	0.3	Y	y	v j		0.50	0.15	ug/L
MW-14-3	1935353-04	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-14-3	1935353-04	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
MW-14-3	1935353-04	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-3	1935353-04	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-3	1935353-04	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	Tetrachloroethene	10/18/2019	0.44	Y	y	v j		0.50	0.23	ug/L
MW-14-3	1935353-04	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1935353-04	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-14-3	1935353-04	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-14-3	1935353-04	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1935353-04	Trichloroethene	10/18/2019	0.89	Y	y	v		0.50	0.19	ug/L
MW-14-3	1935353-04	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935353

Analytical 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	1935353-04	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-14-3	1935353-04	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1935353-04	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-14-3	1935353-04	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-14-3	1935353-04	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-14-3	1935353-04	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-3	1935353-04	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-3	1935353-04	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-14-3	1935353-04	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
MW-14-3	1935353-04	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-14-3	1935353-04	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-3	1935353-04	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1935353-04	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-14-3	1935353-04	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-14-3	1935353-04	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-14-3	1935353-04	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-14-3	1935353-04	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-14-3	1935353-04	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-14-3	1935353-04	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-3	1935353-04	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-3	1935353-04	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-3	1935353-04	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-14-3	1935353-04	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1935353-04	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1935353

Analytical 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	1935353-04	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1935353-04	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-3	1935353-04	Chloroform	10/18/2019	0.48	Y	y	v j		0.50	0.14	ug/L
MW-14-3	1935353-04	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-3	1935353-04	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-3	1935353-04	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-3	1935353-04	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-3	1935353-04	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-3	1935353-04	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-3	1935353-04	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-3	1935353-04	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-3	1935353-04	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-4	1935353-03	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-14-4	1935353-03	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-14-4	1935353-03	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-4	1935353-03	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1935353-03	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-14-4	1935353-03	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-14-4	1935353-03	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-14-4	1935353-03	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-14-4	1935353-03	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
MW-14-4	1935353-03	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935353

Analytical 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	1935353-03	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-14-4	1935353-03	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1935353-03	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1935353-03	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1935353-03	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-14-4	1935353-03	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1935353-03	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1935353-03	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1935353-03	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1935353-03	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-14-4	1935353-03	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1935353-03	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1935353-03	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-4	1935353-03	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935353

Analytical 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	1935353-03	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-4	1935353-03	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-4	1935353-03	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1935353-03	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1935353-03	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1935353-03	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	Chloroform	10/18/2019	0.18	Y	y	v j		0.50	0.14	ug/L
MW-14-4	1935353-03	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-4	1935353-03	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-4	1935353-03	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-4	1935353-03	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-4	1935353-03	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1935353-03	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-14-4	1935353-03	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-4	1935353-03	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-14-4	1935353-03	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-4	1935353-03	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1935353-03	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-14-4	1935353-03	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
MW-14-4	1935353-03	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935353

Analytical 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	1935353-03	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-4	1935353-03	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-14-4	1935353-03	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-14-4	1935353-03	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-14-4	1935353-03	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-4	1935353-03	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-14-4	1935353-03	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-14-4	1935353-03	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-14-4	1935353-03	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1935353-03	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-4	1935353-03	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1935353-03	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-4	1935353-03	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-14-4	1935353-03	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1935353-03	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-4	1935353-03	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-4	1935353-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1935353-03	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-14-4	1935353-03	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-4	1935353-03	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-4	1935353-03	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-4	1935353-03	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935353

Analytical 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	1935353-03	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-4	1935353-03	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1935353-02	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-14-5	1935353-02	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-14-5	1935353-02	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1935353-02	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-14-5	1935353-02	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-14-5	1935353-02	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-14-5	1935353-02	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-14-5	1935353-02	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1935353-02	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-14-5	1935353-02	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-14-5	1935353-02	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1935353-02	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1935353-02	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1935353-02	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-14-5	1935353-02	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1935353-02	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-14-5	1935353-02	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	Chloroform	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935353

Analytical 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	1935353-02	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-14-5	1935353-02	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-14-5	1935353-02	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
MW-14-5	1935353-02	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-14-5	1935353-02	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
MW-14-5	1935353-02	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-14-5	1935353-02	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-14-5	1935353-02	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-14-5	1935353-02	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-14-5	1935353-02	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-14-5	1935353-02	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-14-5	1935353-02	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-14-5	1935353-02	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-14-5	1935353-02	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-14-5	1935353-02	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
MW-14-5	1935353-02	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-14-5	1935353-02	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-14-5	1935353-02	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1935353-02	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-14-5	1935353-02	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-14-5	1935353-02	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-14-5	1935353-02	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1935353

Analytical 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	1935353-02	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1935353-02	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1935353-02	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1935353-02	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-14-5	1935353-02	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1935353-02	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1935353-02	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-14-5	1935353-02	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1935353-02	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1935353-02	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1935353-02	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1935353-02	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1935353-02	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1935353-02	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1935353-02	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-14-5	1935353-02	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-14-5	1935353-02	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-14-5	1935353-02	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935353

Analytical 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	1935353-02	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-14-5	1935353-02	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-14-5	1935353-02	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1935353-02	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-14-5	1935353-02	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-14-5	1935353-02	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-14-5	1935353-02	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-14-5	1935353-02	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-14-5	1935353-02	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-14-5	1935353-02	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-25-1	1935353-11	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1935353-11	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-1	1935353-11	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1935353-11	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-1	1935353-11	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1935353-11	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1935353-11	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1935353-11	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935353

Analytical 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	1935353-11	Trichloroethene	10/18/2019	1.5	Y	y	v		0.50	0.19	ug/L
MW-25-1	1935353-11	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-25-1	1935353-11	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	Methyl t-butyl ether	10/18/2019	0.41	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1935353-11	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1935353-11	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1935353-11	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1935353-11	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1935353-11	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1935353-11	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1935353-11	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-1	1935353-11	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1935353-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1935353-11	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-25-1	1935353-11	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-25-1	1935353-11	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-25-1	1935353-11	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L

SDG: 1935353

Analytical 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	1935353-11	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-25-1	1935353-11	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-1	1935353-11	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-25-1	1935353-11	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-25-1	1935353-11	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-25-1	1935353-11	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-25-1	1935353-11	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-25-1	1935353-11	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-25-1	1935353-11	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-25-1	1935353-11	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-25-1	1935353-11	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-25-1	1935353-11	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1935353-11	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-25-1	1935353-11	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-25-1	1935353-11	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-25-1	1935353-11	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-1	1935353-11	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-25-1	1935353-11	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
MW-25-1	1935353-11	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-25-1	1935353-11	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
MW-25-1	1935353-11	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-1	1935353-11	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1935353-11	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L

SDG: 1935353

Analytical 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	1935353-11	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-1	1935353-11	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-25-1	1935353-11	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1935353-11	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1935353-11	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-1	1935353-11	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-1	1935353-11	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-1	1935353-11	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1935353-11	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-1	1935353-11	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-1	1935353-11	Chloroform	10/18/2019	0.49	Y	y	v j		0.50	0.14	ug/L
MW-25-1	1935353-11	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-1	1935353-11	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-1	1935353-11	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-1	1935353-11	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-1	1935353-11	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-1	1935353-11	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-1	1935353-11	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-1	1935353-11	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-1	1935353-11	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-1	1935353-11	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935353

Analytical 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	1935353-11	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1935353-10	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1935353-10	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1935353-10	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1935353-10	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1935353-10	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1935353-10	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1935353-10	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1935353-10	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1935353-10	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1935353-10	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1935353-10	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1935353-10	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1935353-10	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1935353-10	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1935353-10	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-25-2	1935353-10	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-2	1935353-10	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L

SDG: 1935353

Analytical 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	1935353-10	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1935353-10	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-25-2	1935353-10	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1935353-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-2	1935353-10	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-25-2	1935353-10	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1935353-10	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1935353-10	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-25-2	1935353-10	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-25-2	1935353-10	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1935353-10	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-2	1935353-10	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-25-2	1935353-10	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
MW-25-2	1935353-10	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-25-2	1935353-10	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-25-2	1935353-10	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-25-2	1935353-10	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-2	1935353-10	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-25-2	1935353-10	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-25-2	1935353-10	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-25-2	1935353-10	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935353

Analytical 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	1935353-10	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-2	1935353-10	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
MW-25-2	1935353-10	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-25-2	1935353-10	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
MW-25-2	1935353-10	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-25-2	1935353-10	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-25-2	1935353-10	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-2	1935353-10	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-2	1935353-10	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1935353-10	Chloroform	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1935353-10	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-25-2	1935353-10	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1935353-10	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-25-2	1935353-10	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-2	1935353-10	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-25-2	1935353-10	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-2	1935353-10	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-2	1935353-10	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-2	1935353-10	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1935353-10	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-2	1935353-10	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-2	1935353-10	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L

SDG: 1935353

Analytical 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	1935353-10	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-25-2	1935353-10	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-2	1935353-10	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-2	1935353-10	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1935353-10	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-2	1935353-10	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1935353-10	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1935353-10	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-2	1935353-10	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-2	1935353-10	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-2	1935353-10	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-2	1935353-10	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-3	1935353-08	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1935353-08	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-3	1935353-08	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-3	1935353-08	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-25-3	1935353-08	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-3	1935353-08	Chloroform	10/18/2019	0.41	Y	y	v j		0.50	0.14	ug/L
MW-25-3	1935353-08	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1935353-08	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935353

Analytical 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	1935353-08	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1935353-08	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1935353-08	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-3	1935353-08	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-25-3	1935353-08	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-25-3	1935353-08	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-25-3	1935353-08	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-25-3	1935353-08	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-25-3	1935353-08	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-25-3	1935353-08	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1935353-08	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1935353-08	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1935353-08	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-3	1935353-08	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1935353-08	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-3	1935353-08	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-25-3	1935353-08	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1935353-08	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1935353

Analytical 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	1935353-08	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-3	1935353-08	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-25-3	1935353-08	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1935353-08	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-25-3	1935353-08	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-25-3	1935353-08	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-25-3	1935353-08	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-25-3	1935353-08	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
MW-25-3	1935353-08	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-25-3	1935353-08	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-25-3	1935353-08	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-3	1935353-08	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1935353-08	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-25-3	1935353-08	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-3	1935353-08	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-25-3	1935353-08	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-3	1935353-08	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-3	1935353-08	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-3	1935353-08	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
MW-25-3	1935353-08	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-25-3	1935353-08	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-25-3	1935353-08	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L

SDG: 1935353

Analytical 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	1935353-08	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-25-3	1935353-08	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1935353-08	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-3	1935353-08	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-3	1935353-08	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1935353-08	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-3	1935353-08	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-3	1935353-08	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-3	1935353-08	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1935353-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1935353-08	Tetrachloroethene	10/18/2019	0.5	Y	y	v		0.50	0.23	ug/L
MW-25-3	1935353-08	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1935353-08	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-25-3	1935353-08	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-3	1935353-08	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1935353-08	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-3	1935353-08	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-3	1935353-08	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-3	1935353-08	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-3	1935353-08	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935353

Analytical 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	1935353-07	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1935353-07	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1935353-07	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1935353-07	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1935353-07	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1935353-07	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1935353-07	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-4	1935353-07	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1935353-07	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-25-4	1935353-07	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-25-4	1935353-07	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1935353-07	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1935353-07	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-25-4	1935353-07	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-25-4	1935353-07	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-25-4	1935353-07	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L

SDG: 1935353

Analytical 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	1935353-07	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-25-4	1935353-07	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-4	1935353-07	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1935353-07	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-25-4	1935353-07	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-25-4	1935353-07	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-25-4	1935353-07	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-25-4	1935353-07	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-25-4	1935353-07	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
MW-25-4	1935353-07	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1935353-07	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1935353-07	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
MW-25-4	1935353-07	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-4	1935353-07	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-25-4	1935353-07	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-25-4	1935353-07	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-25-4	1935353-07	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-25-4	1935353-07	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-25-4	1935353-07	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-4	1935353-07	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
MW-25-4	1935353-07	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-25-4	1935353-07	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935353

Analytical 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	1935353-07	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-4	1935353-07	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-25-4	1935353-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1935353-07	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1935353-07	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1935353-07	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1935353-07	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-4	1935353-07	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-4	1935353-07	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1935353-07	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-25-4	1935353-07	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-4	1935353-07	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1935353-07	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-4	1935353-07	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-4	1935353-07	Chloroform	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-4	1935353-07	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-4	1935353-07	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-4	1935353-07	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1935353-07	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1935353

Analytical 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	1935353-07	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-4	1935353-07	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-4	1935353-07	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-4	1935353-07	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-4	1935353-07	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-4	1935353-07	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1935353-07	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-4	1935353-07	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-4	1935353-07	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1935353-06	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1935353-06	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
MW-25-5	1935353-06	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1935353-06	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1935353-06	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1935353-06	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
MW-25-5	1935353-06	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1935353-06	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935353

Analytical 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	1935353-06	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
MW-25-5	1935353-06	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
MW-25-5	1935353-06	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
MW-25-5	1935353-06	Carbon disulfide	10/18/2019	0.69	Y	y	v j		1.0	0.48	ug/L
MW-25-5	1935353-06	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
MW-25-5	1935353-06	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
MW-25-5	1935353-06	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
MW-25-5	1935353-06	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1935353-06	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
MW-25-5	1935353-06	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
MW-25-5	1935353-06	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1935353-06	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
MW-25-5	1935353-06	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-25-5	1935353-06	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-25-5	1935353-06	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1935353-06	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1935353-06	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1935353

Analytical 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	1935353-06	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1935353-06	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1935353-06	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1935353-06	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1935353-06	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
MW-25-5	1935353-06	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-25-5	1935353-06	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-25-5	1935353-06	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1935353-06	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-25-5	1935353-06	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-25-5	1935353-06	Chloroform	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-25-5	1935353-06	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1935353-06	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
MW-25-5	1935353-06	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1935353-06	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1935353-06	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-25-5	1935353-06	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-25-5	1935353-06	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935353

Analytical 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	1935353-06	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1935353-06	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-25-5	1935353-06	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-25-5	1935353-06	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
MW-25-5	1935353-06	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
MW-25-5	1935353-06	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
MW-25-5	1935353-06	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-25-5	1935353-06	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1935353-06	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
MW-25-5	1935353-06	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-25-5	1935353-06	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-25-5	1935353-06	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-25-5	1935353-06	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-25-5	1935353-06	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
MW-25-5	1935353-06	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
MW-25-5	1935353-06	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-25-5	1935353-06	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L
MW-25-5	1935353-06	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
MW-25-5	1935353-06	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
MW-25-5	1935353-06	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-25-5	1935353-06	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-25-5	1935353-06	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-25-5	1935353-06	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
TB-2-101519	1935353-01	1,1-Dichloropropanone	10/18/2019	0	Y	y	v				ug/L

SDG: 1935353

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-2-101519	1935353-01	1-Chlorobutane	10/18/2019	0	Y	y	v				ug/L
TB-2-101519	1935353-01	Chloroacetonitrile	10/18/2019	0	Y	y	v				ug/L
TB-2-101519	1935353-01	o-Xylene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-101519	1935353-01	p- & m-Xylenes	10/18/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-2-101519	1935353-01	Tetrahydrofuran	10/18/2019	20	Y	n	u		20	5.2	ug/L
TB-2-101519	1935353-01	Propionitrile	10/18/2019	20	Y	n	u		20	6.2	ug/L
TB-2-101519	1935353-01	Pentachloroethane	10/18/2019	2	Y	n	u		2.0	0.63	ug/L
TB-2-101519	1935353-01	Methyl methacrylate	10/18/2019	5	Y	n	u		5.0	1.2	ug/L
TB-2-101519	1935353-01	Methyl acrylate	10/18/2019	0	Y	y	v				ug/L
TB-2-101519	1935353-01	Methyl iodide	10/18/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-2-101519	1935353-01	sec-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-101519	1935353-01	Methyl ethyl ketone	10/18/2019	10	Y	n	u		10	3.3	ug/L
TB-2-101519	1935353-01	Methacrylonitrile	10/18/2019	10	Y	n	u		10	2.3	ug/L
TB-2-101519	1935353-01	2-Hexanone	10/18/2019	10	Y	n	u		10	5.0	ug/L
TB-2-101519	1935353-01	Methyl isobutyl ketone	10/18/2019	10	Y	n	u		10	2.4	ug/L
TB-2-101519	1935353-01	n-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	Bromobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	1,2-Dibromoethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-101519	1935353-01	Hexachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-101519	1935353-01	Bromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-101519	1935353-01	Bromodichloromethane	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-2-101519	1935353-01	Carbon tetrachloride	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-101519	1935353-01	Bromomethane	10/18/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-2-101519	1935353-01	Nitrobenzene	10/18/2019	0	Y	y	v				ug/L
TB-2-101519	1935353-01	tert-Butylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1935353

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-2-101519	1935353-01	Chlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Chloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-101519	1935353-01	Chloroform	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Chloromethane	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-101519	1935353-01	2-Nitropropane	10/18/2019	0	Y	y	v				ug/L
TB-2-101519	1935353-01	Bromoform	10/18/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-2-101519	1935353-01	1,1-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-101519	1935353-01	Methylene chloride	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-101519	1935353-01	p-Isopropyltoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Isopropylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Hexachlorobutadiene	10/18/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-2-101519	1935353-01	Ethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	trans-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-101519	1935353-01	cis-1,3-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	1,1-Dichloropropene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-101519	1935353-01	2,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-101519	1935353-01	1,3-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-2-101519	1935353-01	1,2-Dichloropropane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	1,2-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-101519	1935353-01	cis-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-2-101519	1935353-01	n-Propylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-101519	1935353-01	1,2-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-101519	1935353-01	1,1-Dichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	Dichlorodifluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	1,4-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935353

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-2-101519	1935353-01	1,3-Dichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-101519	1935353-01	Dibromomethane	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-101519	1935353-01	1,2-Dibromo-3-chloropropane	10/18/2019	1	Y	n	u		1.0	0.89	ug/L
TB-2-101519	1935353-01	Dibromochloromethane	10/18/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-2-101519	1935353-01	4-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-2-101519	1935353-01	2-Chlorotoluene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Benzene	10/18/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-2-101519	1935353-01	trans-1,2-Dichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-101519	1935353-01	1,2,3-Trichloropropane	10/18/2019	1	Y	n	u		1.0	0.78	ug/L
TB-2-101519	1935353-01	Ethyl methacrylate	10/18/2019	4	Y	n	u		4.0	1.3	ug/L
TB-2-101519	1935353-01	Diethyl ether	10/18/2019	2	Y	n	u		2.0	0.33	ug/L
TB-2-101519	1935353-01	trans-1,4-Dichloro-2-butene	10/18/2019	5	Y	n	u		5.0	1.8	ug/L
TB-2-101519	1935353-01	Carbon disulfide	10/18/2019	1	Y	n	u		1.0	0.48	ug/L
TB-2-101519	1935353-01	t-Butyl alcohol	10/18/2019	10	Y	n	u		10	9.4	ug/L
TB-2-101519	1935353-01	t-Amyl Methyl ether	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-101519	1935353-01	Allyl chloride	10/18/2019	5	Y	n	u		5.0	0.47	ug/L
TB-2-101519	1935353-01	Acrylonitrile	10/18/2019	5	Y	n	u		5.0	1.5	ug/L
TB-2-101519	1935353-01	Acetone	10/18/2019	10	Y	n	u		10	6.6	ug/L
TB-2-101519	1935353-01	Vinyl chloride	10/18/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-2-101519	1935353-01	1,3,5-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Methyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-101519	1935353-01	Naphthalene	10/18/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-2-101519	1935353-01	Trichlorofluoromethane	10/18/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-2-101519	1935353-01	Trichloroethene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935353

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-2-101519	1935353-01	1,1,2-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-101519	1935353-01	1,1,1-Trichloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-101519	1935353-01	1,2,4-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-2-101519	1935353-01	1,2,3-Trichlorobenzene	10/18/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-2-101519	1935353-01	Toluene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-101519	1935353-01	Tetrachloroethene	10/18/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-2-101519	1935353-01	1,1,2,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-2-101519	1935353-01	1,1,1,2-Tetrachloroethane	10/18/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-2-101519	1935353-01	Styrene	10/18/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-2-101519	1935353-01	Ethyl t-butyl ether	10/18/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-2-101519	1935353-01	1,2,4-Trimethylbenzene	10/18/2019	0.5	Y	n	u		0.50	0.17	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935526

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-3-101619	1935526-01	Water	11/16/19
MW-24-5	1935526-02	Water	11/16/19
MW-24-4	1935526-03	Water	11/16/19
MW-24-3	1935526-04	Water	11/16/19
MW-24-2**	1935526-05**	Water	11/16/19
MW-24-1	1935526-06	Water	11/16/19
MW-22-5	1935526-07	Water	11/16/19
MW-22-4	1935526-08	Water	11/16/19
MW-22-3	1935526-09	Water	11/16/19
DUP-4-4Q19	1935526-10	Water	11/16/19
MW-22-2	1935526-11	Water	11/16/19
EB-3-101619	1935526-12	Water	11/16/19
MW-22-1	1935526-13	Water	11/16/19
MW-24-2MS	1935526-05MS	Water	11/16/19
MW-24-2MSD	1935526-05MSD	Water	11/16/19

**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.

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-3-101619 was identified as a trip blank. No contaminants were found.

Sample EB-3-101619 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-22-3 and DUP-4-4Q19 were identified as field duplicates. No results were detected in any of the samples.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1935526

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1935526

No Sample Data Qualified in this SDG

LDC #: 46532C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935526

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 11/19

Page: 1 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	$RSR \leq 20\%$, Y^2 $12V \leq 30\%$
IV.	Continuing calibration	A	$CCV \leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TP=1, EB=12
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LOS
X.	Field duplicates	ND	D=9+10
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable
 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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-3-101619	1935526-01	Water	11/16/19
2	MW-24-5	1935526-02	Water	11/16/19
3	MW-24-4	1935526-03	Water	11/16/19
4	MW-24-3	1935526-04	Water	11/16/19
5	MW-24-2**	1935526-05**	Water	11/16/19
6	MW-24-1	1935526-06	Water	11/16/19
7	MW-22-5	1935526-07	Water	11/16/19
8	MW-22-4	1935526-08	Water	11/16/19
9	MW-22-3	1935526-09	Water	11/16/19
10	DUP-4-4Q19	1935526-10	Water	11/16/19
11	MW-22-2	1935526-11	Water	11/16/19
12	EB-3-101619	1935526-12	Water	11/16/19
13	MW-22-1	1935526-13	Water	11/16/19
14	MW-24-2MS	1935526-05MS	Water	11/16/19

LDC #: 46532C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935526

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 11/17

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
15	MW-24-2MSD	1935526-05MSD	Water	11/16/19
16				
17				
18				
19				
20				

Notes:

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 30%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) of continuing calibration < 30%?	<input 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 type="checkbox"/>	<input checked="" 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 choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

VALIDATION FINDINGS WORKSHEET 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)	10/4/19	K (1st internal standard)	0.7215136	0.7215136	0.6924436	0.6924436	6.702173	6.702
			S (2nd internal standard)	0.3384052	0.3384051	0.3454039	0.345039	4.045952	4.046
			EE (3rd internal standard)	2.023053	2.023053	2.055444	2.055444	10.94163	10.942
			(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	21OCT02	10/21/19	K (1st internal standard)	0.6924436	0.7505377	0.7505376	8.4	8.4
			S (2nd internal standard)	0.3454039	0.3395981	0.339598	1.7	1.7
			EE (3rd internal standard)	2.055444	1.890521	1.890521	8.0	8.0
			HHH (4th internal standard)					
2			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
3			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
4			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					

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

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 6

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.99	99.9	99.9	0
Bromofluorobenzene	✓	10.45	104	104	✓
1,2-Dichlorobenzene-d4 <u>1,2-DCA</u>	✓	10.72	107	107	✓
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: 12/15

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	26.300	26.280	105	105	105	105	0.0761	0.0761
Trichloroethene	↓	↓	↓	24.700	25.040	98.8	98.8	100	100	1.37	1.37
Benzene	↓	↓	↓	24.450	24.200	97.8	97.8	97.0	97.0	0.82	0.82
Toluene	↓	↓	↓	22.360	22.860	89.4	89.4	91.4	91.4	2.2	2.2
Chlorobenzene	↓	↓	↓	23.700	23.320	94.9	94.9	93.3	93.3	1.70	1.70

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: BD60061-BS1

Compound	Spike Added (<u>179</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>26.100</u>	<u>NA</u>	<u>106</u>	<u>106</u>				
Trichloroethene			<u>24.510</u>		<u>98.0</u>	<u>98.0</u>				
Benzene			<u>24.210</u>		<u>96.8</u>	<u>96.8</u>				
Toluene			<u>22.310</u>		<u>89.5</u>	<u>89.5</u>				
Chlorobenzene			<u>24.610</u>		<u>98.7</u>	<u>98.7</u>				

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

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

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

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

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

Example:

Sample I.D. 5 , K :

$$\text{Conc.} = \frac{(\cancel{8240}) (10.0) (1)}{(\cancel{265463}) (0.692436) (1)}$$

= 0.45 $\mu\text{g/L}$

#	Sample ID	Compound	Reported Concentration ($\mu\text{g/L}$)	Calculated Concentration ()	Qualification
	5	K	0.45		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935526

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-24-5	1935526-02	Water	11/16/19
MW-24-4	1935526-03	Water	11/16/19
MW-24-3	1935526-04	Water	11/16/19
MW-24-2**	1935526-05**	Water	11/16/19
MW-24-1	1935526-06	Water	11/16/19
MW-22-5	1935526-07	Water	11/16/19
MW-22-4	1935526-08	Water	11/16/19
MW-22-3	1935526-09	Water	11/16/19
DUP-4-4Q19	1935526-10	Water	11/16/19
MW-22-2	1935526-11	Water	11/16/19
EB-3-101619	1935526-12	Water	11/16/19
MW-22-1	1935526-13	Water	11/16/19
MW-24-2MS	1935526-05MS	Water	11/16/19
MW-24-2MSD	1935526-05MSD	Water	11/16/19
MW-24-2DUP	1935526-05DUP	Water	11/16/19
EB-3-101619MS	1935526-12MS	Water	11/16/19
EB-3-101619MSD	1935526-12MSD	Water	11/16/19
EB-3-101619DUP	1935526-12DUP	Water	11/16/19

**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.

VI. Field Blanks

Sample EB-3-101619 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 analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-22-3 and DUP-4-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-22-3	DUP-4-4Q19	
Chromium	1.2	0.78	42

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1935526

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1935526

No Sample Data Qualified in this SDG

LDC #: 46532C4a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/5/19

SDG #: 1935526

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: *ATC*

2nd Reviewer: *[Signature]*

METHOD: Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=11
VII.	Matrix Spike/Matrix Spike Duplicates	A	(13,14), (16,17)
VIII.	Duplicate sample analysis	A	15, 18
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(8,9)
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV only
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-24-5	1935526-02	Water	11/16/19
2	MW-24-4	1935526-03	Water	11/16/19
3	MW-24-3	1935526-04	Water	11/16/19
4	MW-24-2**	1935526-05**	Water	11/16/19
5	MW-24-1	1935526-06	Water	11/16/19
6	MW-22-5	1935526-07	Water	11/16/19
7	MW-22-4	1935526-08	Water	11/16/19
8	MW-22-3	1935526-09	Water	11/16/19
9	DUP-4-4Q19	1935526-10	Water	11/16/19
10	MW-22-2	1935526-11	Water	11/16/19
11	EB-3-101619	1935526-12	Water	11/16/19
12	MW-22-1	1935526-13	Water	11/16/19
13	MW-24-2MS	1935526-05MS	Water	11/16/19
14	MW-24-2MSD	1935526-05MSD	Water	11/16/19
15	MW-24-2DUP	1935526-05DUP	Water	11/16/19

LDC #: 46532C4a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935526

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/5/19

Page: 2 of 2

Reviewer: ATV

2nd Reviewer: ATV

METHOD: Chromium (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16	EB-3-101619MS	1935526-12MS	Water	11/16/19
17	EB-3-101619MSD	1935526-12MSD	Water	11/16/19
18	EB-3-101619DUP	1935526-12DUP	Water	11/16/19
19				
20				
21				
22				
23				

Notes: _____

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

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

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

LDC#: 46532C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	8	9		
Chromium	1.2	0.78	42	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46532C4a.wpd

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 10/18 @ 08:01	Cr	49.436	50.000	98.9	98.9	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVQ	ICP/MS (Continuing calibration) 10/18 @ 18:18	Cr	39.275	40.000	98.2	98.2	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	102.905	102.879	± 0.1 AMU	NA	Y
	%RSD	24.0	15212.2	≤ 5% RSD	1.2	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 10/18 @ 18:06	Cr	44.488	40.000	111	111	Y
13	Matrix spike 10/18 @ 18:13	Cr	(SSR-SR) 36.66	40.000	91.7	91.8	Y
13/14	Duplicate 10/18 @ 18:15	Cr	37.984	38.762	2.03	2.03	Y
4	Post digestion spike 10/18 @ 18:17	Cr	35.08	40.000	87.7	87.8	Y
4	ICP serial dilution 10/18 @ 18:11	Cr	2.000	2.062	3	NC	Y

Comments: _____

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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

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

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

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

Concentration =
$$\frac{(RD)(FV)(Dil)}{(In. Vol.)}$$
 Recalculation: #4

$2.062 \approx 2.1$

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

#	Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
	4	Cr (10/18 @ 18:08)	2.1	2.1	Y

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935526

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-24-5	1935526-02	Water	11/16/19
MW-24-4	1935526-03	Water	11/16/19
MW-24-3	1935526-04	Water	11/16/19
MW-24-2**	1935526-05**	Water	11/16/19
MW-24-1	1935526-06	Water	11/16/19
MW-22-5	1935526-07	Water	11/16/19
MW-22-4	1935526-08	Water	11/16/19
MW-22-3	1935526-09	Water	11/16/19
DUP-4-4Q19	1935526-10	Water	11/16/19
MW-22-2	1935526-11	Water	11/16/19
EB-3-101619	1935526-12	Water	11/16/19
MW-22-1	1935526-13	Water	11/16/19
MW-24-2MS	1935526-05MS	Water	11/16/19
MW-24-2MSD	1935526-05MSD	Water	11/16/19
MW-24-2DUP	1935526-05DUP	Water	11/16/19
MW-24-1MS	1935526-06MS	Water	11/16/19
MW-24-1MSD	1935526-06MSD	Water	11/16/19
MW-24-1DUP	1935526-06DUP	Water	11/16/19

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Nitrite as Nitrogen by EPA Method 353.2

Orthophosphate as Phosphorus by EPA Method 365.1

Hexavalent Chromium by EPA Method 218.6

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
PB (prep blank)	Hexavalent chromium	0.000045 mg/L	MW-24-5 MW-24-4 MW-24-3 MW-24-2** MW-24-1 MW-22-5 MW-22-4 MW-22-3 DUP-4-4Q19 MW-22-2
ICB/CCB	Hexavalent chromium	0.000047 mg/L	MW-24-2**
ICB/CCB	Hexavalent chromium	0.000039 mg/L	MW-24-5 MW-24-4 MW-24-3 MW-24-1 MW-22-5 MW-22-4 MW-22-3 DUP-4-4Q19 MW-22-2
PB (prep blank)	Hexavalent chromium	0.000050 mg/L	EB-3-101619 MW-22-1
ICB/CCB	Hexavalent chromium	0.000045 mg/L	EB-3-101619 MW-22-1

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-24-4	Hexavalent chromium	0.000083 mg/L	0.000083U mg/L
MW-24-3	Hexavalent chromium	0.000037 mg/L	0.000037U mg/L
MW-24-1	Hexavalent chromium	0.00011 mg/L	0.00011U mg/L
MW-22-5	Hexavalent chromium	0.00011 mg/L	0.00011U mg/L
EB-3-101619	Hexavalent chromium	0.000048 mg/L	0.000048U mg/L

V. Field Blanks

Sample EB-1-101419 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-3-101619	Hexavalent chromium	0.000048 mg/L

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-22-3 and DUP-4-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-22-3	DUP-4-4Q19	
Hexavalent chromium	0.00094	0.00092	2
Perchlorate	1.8	1.9	5

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1935526

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1935526

Sample	Analyte	Modified Final Concentration	A or P
MW-24-4	Hexavalent chromium	0.000083U mg/L	A
MW-24-3	Hexavalent chromium	0.000037U mg/L	A
MW-24-1	Hexavalent chromium	0.00011U mg/L	A
MW-22-5	Hexavalent chromium	0.00011U mg/L	A
EB-3-101619	Hexavalent chromium	0.000048U mg/L	A

LDC #: 46532C6

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935526

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/5/19

Page: 1 of 2

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

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), 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	SW	EB = 11
VI.	Matrix Spike/Matrix Spike Duplicates	A	(13,14), (16,17)
VII.	Duplicate sample analysis	A	15, 18
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(8,9)
X.	Sample result verification	A	Not reviewed for Level III validation
XI.	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-24-5	1935526-02	Water	11/16/19
2	MW-24-4	1935526-03	Water	11/16/19
3	MW-24-3	1935526-04	Water	11/16/19
4	MW-24-2**	1935526-05**	Water	11/16/19
5	MW-24-1	1935526-06	Water	11/16/19
6	MW-22-5	1935526-07	Water	11/16/19
7	MW-22-4	1935526-08	Water	11/16/19
8	MW-22-3	1935526-09	Water	11/16/19
9	DUP-4-4Q19	1935526-10	Water	11/16/19
10	MW-22-2	1935526-11	Water	11/16/19
11	EB-3-101619	1935526-12	Water	11/16/19
12	MW-22-1	1935526-13	Water	11/16/19
13	MW-24-2MS	1935526-05MS	Water	11/16/19
14	MW-24-2MSD	1935526-05MSD	Water	11/16/19
15	MW-24-2DUP	1935526-05DUP	Water	11/16/19
16	MW-24-1MS	1935526-06MS	Water	11/16/19
17	MW-24-1MSD	1935526-06MSD	Water	11/16/19

LDC #: 46532C6

VALIDATION COMPLETENESS WORKSHEET

Date: 12/5/19

SDG #: 1935526

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: AK
2nd Reviewer: [Signature]

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18	MW-24-1DUP	1935526-06DUP	Water	11/16/19
19				
20				
21				
22				
23				

Notes: _____

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?		✓		
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995 ?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ 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.	✓			

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All 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+ CIO ₄
5	pH TDS C F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
DC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
13,14,15	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
16,17,18	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄
pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ CIO ₄	

Comments: _____

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 1 to 10

Analyte	Blank ID	Blank ID	Blank Action Limit												
	PB	ICB/CCB (mg/L)		2	3	5	6								
Cr6+	0.000045		0.000225	0.000083	0.000037	0.00011	0.00011								

Conc. units: mg/L

Associated Samples: 4

Analyte	Blank ID	Blank ID	Blank Action Limit												
	PB	ICB/CCB (mg/L)													
Cr6+		0.000047	0.000235												

Conc. units: mg/L

Associated Samples: 1,2,3, 5 to 10

Analyte	Blank ID	Blank ID	Blank Action Limit												
	PB	ICB/CCB (mg/L)		2	3	5	6								
Cr6+		0.000039	0.000195	see above	see above	see above	see above								

Conc. units: mg/L

Associated Samples: 11,12

Analyte	Blank ID	Blank ID	Blank Action Limit												
	PB	ICB/CCB (mg/L)		11											
Cr6+		0.000045	0.000225	see below											
Cr6+	0.000050		0.000250	0.000048											

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 #: 46532C6
SDG #: 1935526

VALIDATION FINDINGS WORKSHEET

Field Blanks

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

METHOD: Inorganics

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

Sample: 11 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (mg/L)
Cr ⁶⁺	0.000048

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

Analyte	Concentration Units ()

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	8	9		
Hexavalent Chromium	0.00094	0.00092	2	
Perchlorate (ug/L)	1.8	1.9	5	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46532C6.wpd

LDC #: 4653206

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 CrO4 was recalculated. Calibration date: 11/05/19

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	CrO4	s1	2	0.0026	0.9984	0.9982	Y
		s2	4	0.0039			
		s3	6	0.0066			
		s4	10	0.011			
		s5	20	0.0218			
CCV ₁ (11/6 @ 00:58) Calibration verification	CrO4	FOUND 11.000	TRUE 10.000		110	101	Y
CCV ₃ (10/18 @ 22:26) Calibration verification	Cr6+	26.140	25.000		105	105	Y
CCV ₄ (10/19 @ 00:21) Calibration verification	Cr6+	25.073	25.000		100	100	Y

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

LDC #: 46532CG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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 11/6 e 09:44	ClO ₄ ⁻	13.000 mg/L	10.000 mg/L	130	115	Y
13	Matrix spike sample 10/19 e 14:58	Cr6+	(SSR-SR) 0.022108 mg/L	0.020202 mg/L	109	109	Y
13/14	Duplicate sample 10/19 e 15:07	Cr6+	0.024312 mg/L	0.024205 mg/L	0.441	0.412	Y

Comments: _____

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: Inorganics, Method See cover

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

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

Compound (analyte) results for ClO₄⁻ reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$\text{Area} / 0.001$

Recalculation:

$0.006 / 0.001 = 6.00$

#	Sample ID	Analyte	Reported Concentration ()	Calculated Concentration ()	Acceptable (Y/N)
	4	Cr6+ (10/18 e 23:52)	0.0021 mg/L	0.0021 mg/L	Y
	4	ClO ₄ ⁻ (11/5 e 23:26)	5.6 mg/L	6.0 mg/L	Y

NASA JPL, 4Q2019 - LDC#46532

SDG: 1935526

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-4-4Q19	1935526-10	Total Recoverable Chromium	10/18/2019	0.78	Y	y	v j		3.0	0.50	ug/L
EB-3-101619	1935526-12	Total Recoverable Chromium	10/18/2019	3	Y	n	u		3.0	0.50	ug/L
MW-22-1	1935526-13	Total Recoverable Chromium	10/18/2019	3	Y	n	u		3.0	0.50	ug/L
MW-22-2	1935526-11	Total Recoverable Chromium	10/18/2019	1.6	Y	y	v j		3.0	0.50	ug/L
MW-22-3	1935526-09	Total Recoverable Chromium	10/18/2019	1.2	Y	y	v j		3.0	0.50	ug/L
MW-22-4	1935526-08	Total Recoverable Chromium	10/18/2019	2.3	Y	y	v j		3.0	0.50	ug/L
MW-22-5	1935526-07	Total Recoverable Chromium	10/18/2019	3	Y	n	u		3.0	0.50	ug/L
MW-24-1	1935526-06	Total Recoverable Chromium	10/18/2019	3.6	Y	y	v		3.0	0.50	ug/L
MW-24-2	1935526-05	Total Recoverable Chromium	10/18/2019	2.1	Y	y	v j		3.0	0.50	ug/L
MW-24-3	1935526-04	Total Recoverable Chromium	10/18/2019	3	Y	n	u		3.0	0.50	ug/L
MW-24-4	1935526-03	Total Recoverable Chromium	10/18/2019	3	Y	n	u		3.0	0.50	ug/L
MW-24-5	1935526-02	Total Recoverable Chromium	10/18/2019	3.1	Y	y	v		3.0	0.50	ug/L

Analytical Method											
EPA-218.6											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-4-4Q19	1935526-10	Hexavalent Chromium	10/19/2019	#####	Y	y	v		0.0002	0.0000	mg/L
EB-3-101619	1935526-12	Hexavalent Chromium	10/19/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-22-1	1935526-13	Hexavalent Chromium	10/19/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-22-2	1935526-11	Hexavalent Chromium	10/19/2019	0.0016	Y	y	v		0.0002	0.0000	mg/L
MW-22-3	1935526-09	Hexavalent Chromium	10/19/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-22-4	1935526-08	Hexavalent Chromium	10/19/2019	0.0025	Y	y	v		0.0002	0.0000	mg/L
MW-22-5	1935526-07	Hexavalent Chromium	10/19/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-24-1	1935526-06	Hexavalent Chromium	10/19/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-24-2	1935526-05	Hexavalent Chromium	10/18/2019	0.0021	Y	y	v		0.0002	0.0000	mg/L

SDG: 1935526

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Analytical Method		EPA-218.6									
MW-24-3	1935526-04	Hexavalent Chromium	10/19/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-24-4	1935526-03	Hexavalent Chromium	10/19/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-24-5	1935526-02	Hexavalent Chromium	10/19/2019	0.0025	Y	y	v		0.0002	0.0000	mg/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	1935526-06	Sulfate	10/17/2019	49	Y	y	v		1.0	0.20	mg/L
MW-24-1	1935526-06	Nitrate as N	10/17/2019	1.5	Y	y	v		0.10	0.042	mg/L
MW-24-1	1935526-06	Chloride	10/17/2019	76	Y	y	v		0.50	0.15	mg/L
Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-4-4Q19	1935526-10	Perchlorate	11/6/2019	1.9	Y	y	v j		4.0	0.76	ug/L
EB-3-101619	1935526-12	Perchlorate	11/6/2019	4	Y	n	u		4.0	0.76	ug/L
MW-22-1	1935526-13	Perchlorate	11/6/2019	170	Y	y	v		40	7.6	ug/L
MW-22-2	1935526-11	Perchlorate	11/6/2019	2.6	Y	y	v j		4.0	0.76	ug/L
MW-22-3	1935526-09	Perchlorate	11/6/2019	1.8	Y	y	v j		4.0	0.76	ug/L
MW-22-4	1935526-08	Perchlorate	11/6/2019	0.95	Y	y	v j		4.0	0.76	ug/L
MW-22-5	1935526-07	Perchlorate	11/6/2019	4	Y	n	u		4.0	0.76	ug/L
MW-24-1	1935526-06	Perchlorate	11/6/2019	2.1	Y	y	v j		4.0	0.76	ug/L
MW-24-2	1935526-05	Perchlorate	11/5/2019	5.6	Y	y	v		4.0	0.76	ug/L
MW-24-3	1935526-04	Perchlorate	11/6/2019	4	Y	n	u		4.0	0.76	ug/L
MW-24-4	1935526-03	Perchlorate	11/6/2019	1.3	Y	y	v j		4.0	0.76	ug/L
MW-24-5	1935526-02	Perchlorate	11/6/2019	4	Y	n	u		4.0	0.76	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

SDG: 1935526

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	1935526-06	Nitrite as N	10/17/2019	0.05	Y	n	u		0.050	0.010	mg/L
Analytical Method EPA-365.1											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-1	1935526-06	ortho-Phosphate as P	10/17/2019	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
DUP-4-4Q19	1935526-10	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-4-4Q19	1935526-10	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-4-4Q19	1935526-10	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-4-4Q19	1935526-10	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
DUP-4-4Q19	1935526-10	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-4Q19	1935526-10	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-4-4Q19	1935526-10	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
DUP-4-4Q19	1935526-10	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-4-4Q19	1935526-10	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-4Q19	1935526-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-4Q19	1935526-10	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-4-4Q19	1935526-10	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-4Q19	1935526-10	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-4-4Q19	1935526-10	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
DUP-4-4Q19	1935526-10	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
DUP-4-4Q19	1935526-10	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L

SDG: 1935526

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-4-4Q19	1935526-10	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-4Q19	1935526-10	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
DUP-4-4Q19	1935526-10	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-4Q19	1935526-10	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
DUP-4-4Q19	1935526-10	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
DUP-4-4Q19	1935526-10	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-4Q19	1935526-10	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-4-4Q19	1935526-10	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
DUP-4-4Q19	1935526-10	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
DUP-4-4Q19	1935526-10	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-4-4Q19	1935526-10	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-4-4Q19	1935526-10	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
DUP-4-4Q19	1935526-10	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
DUP-4-4Q19	1935526-10	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
DUP-4-4Q19	1935526-10	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
DUP-4-4Q19	1935526-10	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
DUP-4-4Q19	1935526-10	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-4-4Q19	1935526-10	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-4-4Q19	1935526-10	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
DUP-4-4Q19	1935526-10	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-4-4Q19	1935526-10	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-4Q19	1935526-10	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1935526

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-4-4Q19	1935526-10	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-4-4Q19	1935526-10	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-4-4Q19	1935526-10	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-4-4Q19	1935526-10	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-4-4Q19	1935526-10	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-4-4Q19	1935526-10	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-4-4Q19	1935526-10	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-4Q19	1935526-10	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-4-4Q19	1935526-10	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-4Q19	1935526-10	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-4-4Q19	1935526-10	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-4-4Q19	1935526-10	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-4-4Q19	1935526-10	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-4-4Q19	1935526-10	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-4-4Q19	1935526-10	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-4Q19	1935526-10	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-4Q19	1935526-10	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-4-4Q19	1935526-10	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-4Q19	1935526-10	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935526

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-4-4Q19	1935526-10	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-4-4Q19	1935526-10	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-4-4Q19	1935526-10	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-4-4Q19	1935526-10	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-4Q19	1935526-10	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-4-4Q19	1935526-10	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-4-4Q19	1935526-10	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-4-4Q19	1935526-10	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-4-4Q19	1935526-10	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-4-4Q19	1935526-10	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-4-4Q19	1935526-10	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-4-4Q19	1935526-10	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-4-4Q19	1935526-10	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-4Q19	1935526-10	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-4-4Q19	1935526-10	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-3-101619	1935526-12	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-101619	1935526-12	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935526

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-3-101619	1935526-12	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-101619	1935526-12	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-101619	1935526-12	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-101619	1935526-12	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-101619	1935526-12	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-101619	1935526-12	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-3-101619	1935526-12	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-101619	1935526-12	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-101619	1935526-12	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-101619	1935526-12	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
EB-3-101619	1935526-12	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-101619	1935526-12	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-101619	1935526-12	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-101619	1935526-12	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-3-101619	1935526-12	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935526

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-3-101619	1935526-12	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-101619	1935526-12	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-101619	1935526-12	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-3-101619	1935526-12	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
EB-3-101619	1935526-12	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-101619	1935526-12	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-101619	1935526-12	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-101619	1935526-12	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-101619	1935526-12	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-101619	1935526-12	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-101619	1935526-12	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-101619	1935526-12	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-3-101619	1935526-12	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
EB-3-101619	1935526-12	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
EB-3-101619	1935526-12	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
EB-3-101619	1935526-12	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
EB-3-101619	1935526-12	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
EB-3-101619	1935526-12	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
EB-3-101619	1935526-12	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
EB-3-101619	1935526-12	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L

SDG: 1935526

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-3-101619	1935526-12	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
EB-3-101619	1935526-12	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-3-101619	1935526-12	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
EB-3-101619	1935526-12	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
EB-3-101619	1935526-12	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
EB-3-101619	1935526-12	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
EB-3-101619	1935526-12	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-101619	1935526-12	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-3-101619	1935526-12	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-3-101619	1935526-12	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-3-101619	1935526-12	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-3-101619	1935526-12	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-3-101619	1935526-12	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
EB-3-101619	1935526-12	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
EB-3-101619	1935526-12	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-101619	1935526-12	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-3-101619	1935526-12	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-3-101619	1935526-12	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-3-101619	1935526-12	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-3-101619	1935526-12	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
EB-3-101619	1935526-12	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
EB-3-101619	1935526-12	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
EB-3-101619	1935526-12	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-3-101619	1935526-12	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1935526

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-3-101619	1935526-12	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-3-101619	1935526-12	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
EB-3-101619	1935526-12	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
EB-3-101619	1935526-12	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
EB-3-101619	1935526-12	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-3-101619	1935526-12	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-22-1	1935526-13	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1935526-13	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1935526-13	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1935526-13	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1935526-13	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1935526-13	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1935526-13	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1935526-13	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1935526-13	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-22-1	1935526-13	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1935526-13	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935526

Analytical 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	1935526-13	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-22-1	1935526-13	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1935526-13	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1935526-13	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-22-1	1935526-13	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	Trichloroethene	10/21/2019	0.48	Y	y	v j		0.50	0.19	ug/L
MW-22-1	1935526-13	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1935526-13	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1935526-13	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-22-1	1935526-13	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-1	1935526-13	Chloroform	10/21/2019	0.72	Y	y	v		0.50	0.14	ug/L
MW-22-1	1935526-13	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1935526-13	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1935526-13	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-1	1935526-13	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1935526-13	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-22-1	1935526-13	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-1	1935526-13	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1935526-13	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1935526-13	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1935526

Analytical 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	1935526-13	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-1	1935526-13	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-1	1935526-13	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1935526-13	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1935526-13	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-1	1935526-13	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-1	1935526-13	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1935526-13	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-1	1935526-13	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1935526-13	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-1	1935526-13	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-1	1935526-13	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-1	1935526-13	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-1	1935526-13	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-1	1935526-13	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-22-1	1935526-13	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-22-1	1935526-13	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-22-1	1935526-13	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-22-1	1935526-13	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-1	1935526-13	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1935526

Analytical 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	1935526-13	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-22-1	1935526-13	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-22-1	1935526-13	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-22-1	1935526-13	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-22-1	1935526-13	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-22-1	1935526-13	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-22-1	1935526-13	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-22-1	1935526-13	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-22-1	1935526-13	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-22-1	1935526-13	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-1	1935526-13	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-1	1935526-13	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-22-1	1935526-13	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-22-1	1935526-13	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-22-1	1935526-13	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-22-1	1935526-13	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-22-1	1935526-13	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-1	1935526-13	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-22-2	1935526-11	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1935526-11	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-22-2	1935526-11	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-22-2	1935526-11	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-2	1935526-11	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1935526-11	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-22-2	1935526-11	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L

SDG: 1935526

Analytical 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	1935526-11	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-22-2	1935526-11	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-22-2	1935526-11	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-22-2	1935526-11	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1935526-11	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-22-2	1935526-11	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1935526-11	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1935526-11	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1935526-11	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1935526-11	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1935526-11	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-2	1935526-11	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1935526-11	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1935526-11	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-22-2	1935526-11	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-2	1935526-11	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1935526-11	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-22-2	1935526-11	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-22-2	1935526-11	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1935526-11	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-22-2	1935526-11	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-22-2	1935526-11	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935526

Analytical 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	1935526-11	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1935526-11	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1935526-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1935526-11	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-22-2	1935526-11	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-22-2	1935526-11	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-22-2	1935526-11	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1935526-11	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-22-2	1935526-11	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-2	1935526-11	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1935526-11	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-22-2	1935526-11	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-22-2	1935526-11	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-22-2	1935526-11	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-22-2	1935526-11	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-22-2	1935526-11	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-22-2	1935526-11	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1935526-11	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-2	1935526-11	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1935526-11	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935526

Analytical 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	1935526-11	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1935526-11	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-22-2	1935526-11	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1935526-11	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1935526-11	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1935526-11	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-2	1935526-11	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-2	1935526-11	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1935526-11	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-2	1935526-11	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-2	1935526-11	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1935526-11	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1935526-11	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-2	1935526-11	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-2	1935526-11	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-2	1935526-11	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-2	1935526-11	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1935526-11	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-2	1935526-11	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-2	1935526-11	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-2	1935526-11	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935526

Analytical 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	1935526-11	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-2	1935526-11	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-2	1935526-11	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-22-3	1935526-09	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1935526-09	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1935526-09	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-22-3	1935526-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1935526-09	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1935526-09	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-22-3	1935526-09	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-22-3	1935526-09	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1935526-09	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-22-3	1935526-09	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-22-3	1935526-09	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-22-3	1935526-09	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-22-3	1935526-09	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1935526-09	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1935526-09	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-22-3	1935526-09	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935526

Analytical 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	1935526-09	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1935526-09	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1935526-09	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1935526-09	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1935526-09	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1935526-09	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1935526-09	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1935526-09	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1935526-09	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-3	1935526-09	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-3	1935526-09	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1935526-09	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-3	1935526-09	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-3	1935526-09	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-22-3	1935526-09	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-22-3	1935526-09	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-22-3	1935526-09	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L

SDG: 1935526

Analytical 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	1935526-09	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-22-3	1935526-09	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-22-3	1935526-09	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-22-3	1935526-09	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1935526-09	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-3	1935526-09	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1935526-09	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-22-3	1935526-09	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-22-3	1935526-09	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-3	1935526-09	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1935526-09	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-22-3	1935526-09	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-22-3	1935526-09	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-22-3	1935526-09	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-22-3	1935526-09	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-22-3	1935526-09	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-22-3	1935526-09	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1935526-09	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-3	1935526-09	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935526

Analytical 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	1935526-09	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-3	1935526-09	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-3	1935526-09	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1935526-09	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-22-3	1935526-09	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-3	1935526-09	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-3	1935526-09	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1935526-09	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-3	1935526-09	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-3	1935526-09	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-3	1935526-09	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-3	1935526-09	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-3	1935526-09	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-3	1935526-09	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-3	1935526-09	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1935526-08	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1935526-08	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-22-4	1935526-08	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1935526-08	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1935526-08	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1935526-08	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-4	1935526-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1935526-08	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1935526-08	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-22-4	1935526-08	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-22-4	1935526-08	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-22-4	1935526-08	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-22-4	1935526-08	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1935526-08	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-22-4	1935526-08	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-22-4	1935526-08	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-22-4	1935526-08	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-22-4	1935526-08	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-4	1935526-08	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-22-4	1935526-08	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-22-4	1935526-08	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1935526-08	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1935526-08	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-4	1935526-08	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-4	1935526-08	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-22-4	1935526-08	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-4	1935526-08	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-4	1935526-08	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-4	1935526-08	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-4	1935526-08	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1935526-08	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-4	1935526-08	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1935526-08	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-4	1935526-08	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-4	1935526-08	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-4	1935526-08	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-4	1935526-08	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-4	1935526-08	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-22-4	1935526-08	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-4	1935526-08	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-4	1935526-08	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-4	1935526-08	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-4	1935526-08	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1935526-08	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-4	1935526-08	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-4	1935526-08	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-4	1935526-08	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-4	1935526-08	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-4	1935526-08	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-4	1935526-08	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-4	1935526-08	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-4	1935526-08	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1935526-08	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-22-4	1935526-08	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-4	1935526-08	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-22-4	1935526-08	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-22-4	1935526-08	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-22-4	1935526-08	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-22-4	1935526-08	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-22-4	1935526-08	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-4	1935526-08	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-22-4	1935526-08	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-22-4	1935526-08	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-4	1935526-08	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-22-4	1935526-08	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-22-4	1935526-08	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-4	1935526-08	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-22-5	1935526-07	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-5	1935526-07	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-5	1935526-07	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-5	1935526-07	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-5	1935526-07	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1935526-07	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-5	1935526-07	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-5	1935526-07	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-5	1935526-07	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1935526-07	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-5	1935526-07	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-5	1935526-07	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-22-5	1935526-07	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-5	1935526-07	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-22-5	1935526-07	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-22-5	1935526-07	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-22-5	1935526-07	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-5	1935526-07	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-22-5	1935526-07	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1935526-07	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-22-5	1935526-07	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-22-5	1935526-07	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-5	1935526-07	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-22-5	1935526-07	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-22-5	1935526-07	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-5	1935526-07	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-5	1935526-07	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-22-5	1935526-07	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-22-5	1935526-07	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-5	1935526-07	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-22-5	1935526-07	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-22-5	1935526-07	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-22-5	1935526-07	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-22-5	1935526-07	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-22-5	1935526-07	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1935526-07	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-22-5	1935526-07	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-22-5	1935526-07	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-22-5	1935526-07	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1935526-07	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-22-5	1935526-07	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-22-5	1935526-07	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1935526-07	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1935526-07	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1935526-07	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-22-5	1935526-07	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-22-5	1935526-07	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-5	1935526-07	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-22-5	1935526-07	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-22-5	1935526-07	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-22-5	1935526-07	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-5	1935526-07	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-22-5	1935526-07	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-22-5	1935526-07	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-22-5	1935526-07	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-22-5	1935526-07	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-22-5	1935526-07	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-22-5	1935526-07	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-22-5	1935526-07	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-22-5	1935526-07	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-22-5	1935526-07	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-22-5	1935526-07	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-22-5	1935526-07	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-22-5	1935526-07	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-22-5	1935526-07	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-22-5	1935526-07	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-22-5	1935526-07	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1935526-06	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1935526-06	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935526

Analytical 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	1935526-06	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1935526-06	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1935526-06	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1935526-06	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1935526-06	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1935526-06	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1935526-06	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-1	1935526-06	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1935526-06	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1935526-06	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-1	1935526-06	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1935526-06	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-1	1935526-06	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-1	1935526-06	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-1	1935526-06	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935526

Analytical 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	1935526-06	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	Chloroform	10/21/2019	1.4	Y	y	v		0.50	0.14	ug/L
MW-24-1	1935526-06	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1935526-06	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-1	1935526-06	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-1	1935526-06	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-24-1	1935526-06	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1935526-06	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1935526-06	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-24-1	1935526-06	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-24-1	1935526-06	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-24-1	1935526-06	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-1	1935526-06	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-1	1935526-06	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-24-1	1935526-06	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-24-1	1935526-06	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-24-1	1935526-06	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-24-1	1935526-06	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1935526-06	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-24-1	1935526-06	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-24-1	1935526-06	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-24-1	1935526-06	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-24-1	1935526-06	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-1	1935526-06	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1935526

Analytical 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	1935526-06	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1935526-06	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-24-1	1935526-06	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-24-1	1935526-06	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-24-1	1935526-06	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-1	1935526-06	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1935526-06	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-1	1935526-06	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1935526-06	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-1	1935526-06	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-24-1	1935526-06	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-24-1	1935526-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1935526-06	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-1	1935526-06	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-1	1935526-06	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-1	1935526-06	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-24-1	1935526-06	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-24-1	1935526-06	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-24-1	1935526-06	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935526

Analytical 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	1935526-06	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-1	1935526-06	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-1	1935526-06	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-2	1935526-05	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-24-2	1935526-05	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-24-2	1935526-05	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1935526-05	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-24-2	1935526-05	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-24-2	1935526-05	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-24-2	1935526-05	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1935526-05	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-24-2	1935526-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1935526-05	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-24-2	1935526-05	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1935526-05	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1935526-05	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1935526-05	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1935526-05	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1935526-05	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L

SDG: 1935526

Analytical 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	1935526-05	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-24-2	1935526-05	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-24-2	1935526-05	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-24-2	1935526-05	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-24-2	1935526-05	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-24-2	1935526-05	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1935526-05	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-2	1935526-05	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-24-2	1935526-05	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-24-2	1935526-05	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-24-2	1935526-05	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-24-2	1935526-05	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-24-2	1935526-05	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-24-2	1935526-05	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-24-2	1935526-05	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-24-2	1935526-05	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-24-2	1935526-05	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1935526-05	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-2	1935526-05	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-24-2	1935526-05	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-2	1935526-05	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-24-2	1935526-05	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1935526-05	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1935526-05	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-2	1935526-05	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1935526

Analytical 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	1935526-05	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-24-2	1935526-05	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-2	1935526-05	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1935526-05	Chloroform	10/21/2019	0.45	Y	y	v j		0.50	0.14	ug/L
MW-24-2	1935526-05	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1935526-05	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1935526-05	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-2	1935526-05	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-2	1935526-05	Bromodichloromethane	10/21/2019	0.2	Y	y	v j		0.50	0.20	ug/L
MW-24-2	1935526-05	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1935526-05	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-2	1935526-05	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-2	1935526-05	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-2	1935526-05	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1935526-05	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-2	1935526-05	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935526

Analytical 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	1935526-05	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-2	1935526-05	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-2	1935526-05	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-2	1935526-05	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1935526-05	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1935526-05	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-2	1935526-05	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-2	1935526-05	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-2	1935526-05	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-2	1935526-05	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-2	1935526-05	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1935526-04	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-24-3	1935526-04	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1935526-04	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1935526-04	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1935526-04	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1935526-04	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	1,1-Dichloroethane	10/21/2019	0.18	Y	y	v j		0.50	0.15	ug/L
MW-24-3	1935526-04	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935526

Analytical 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	1935526-04	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1935526-04	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1935526-04	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1935526-04	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1935526-04	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1935526-04	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1935526-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1935526-04	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-24-3	1935526-04	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1935526-04	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1935526-04	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1935526-04	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-3	1935526-04	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-3	1935526-04	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-3	1935526-04	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-3	1935526-04	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1935526

Analytical 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	1935526-04	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1935526-04	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1935526-04	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-3	1935526-04	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-24-3	1935526-04	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-24-3	1935526-04	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-24-3	1935526-04	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-24-3	1935526-04	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-24-3	1935526-04	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-24-3	1935526-04	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-24-3	1935526-04	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-24-3	1935526-04	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-3	1935526-04	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-3	1935526-04	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-24-3	1935526-04	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-3	1935526-04	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-24-3	1935526-04	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-24-3	1935526-04	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1935526-04	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-24-3	1935526-04	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935526

Analytical 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	1935526-04	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-3	1935526-04	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-3	1935526-04	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-24-3	1935526-04	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1935526-04	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-3	1935526-04	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-3	1935526-04	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1935526-04	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-3	1935526-04	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-3	1935526-04	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-24-3	1935526-04	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-3	1935526-04	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-24-3	1935526-04	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-3	1935526-04	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-24-3	1935526-04	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-24-3	1935526-04	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-24-3	1935526-04	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-24-3	1935526-04	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-24-3	1935526-04	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-24-3	1935526-04	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-3	1935526-04	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935526

Analytical 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	1935526-04	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-3	1935526-04	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-24-4	1935526-03	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1935526-03	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-24-4	1935526-03	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1935526-03	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-24-4	1935526-03	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
MW-24-4	1935526-03	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-24-4	1935526-03	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-4	1935526-03	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-24-4	1935526-03	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-24-4	1935526-03	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-24-4	1935526-03	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1935526-03	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1935526-03	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-4	1935526-03	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1935526-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1935526-03	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-24-4	1935526-03	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-24-4	1935526-03	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-4	1935526-03	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-24-4	1935526-03	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-24-4	1935526-03	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-24-4	1935526-03	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1935526-03	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-4	1935526-03	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-24-4	1935526-03	Carbon disulfide	10/21/2019	0.59	Y	y	v j		1.0	0.48	ug/L
MW-24-4	1935526-03	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-24-4	1935526-03	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-24-4	1935526-03	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-24-4	1935526-03	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-24-4	1935526-03	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-24-4	1935526-03	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-24-4	1935526-03	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-24-4	1935526-03	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-4	1935526-03	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-4	1935526-03	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-24-4	1935526-03	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-4	1935526-03	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-24-4	1935526-03	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	Styrene	10/21/2019	0.18	Y	y	v j		0.50	0.12	ug/L
MW-24-4	1935526-03	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-4	1935526-03	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
MW-24-4	1935526-03	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-4	1935526-03	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-4	1935526-03	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-4	1935526-03	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1935526-03	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-4	1935526-03	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-4	1935526-03	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1935526-03	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-4	1935526-03	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-4	1935526-03	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-4	1935526-03	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-4	1935526-03	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-4	1935526-03	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-4	1935526-03	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-4	1935526-03	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-4	1935526-03	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-4	1935526-03	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-4	1935526-03	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-4	1935526-03	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-4	1935526-03	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-4	1935526-03	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-4	1935526-03	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-4	1935526-03	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-4	1935526-03	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-4	1935526-03	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-4	1935526-03	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1935526-02	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
MW-24-5	1935526-02	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-5	1935526-02	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1935526-02	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1935526-02	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1935526-02	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1935526-02	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-5	1935526-02	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1935526-02	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
MW-24-5	1935526-02	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-5	1935526-02	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1935526-02	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-5	1935526-02	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-24-5	1935526-02	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-5	1935526-02	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1935526-02	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
MW-24-5	1935526-02	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
MW-24-5	1935526-02	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
MW-24-5	1935526-02	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-24-5	1935526-02	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-5	1935526-02	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
MW-24-5	1935526-02	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
MW-24-5	1935526-02	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
MW-24-5	1935526-02	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
MW-24-5	1935526-02	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
MW-24-5	1935526-02	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
MW-24-5	1935526-02	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-5	1935526-02	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
MW-24-5	1935526-02	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
MW-24-5	1935526-02	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-24-5	1935526-02	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1935526-02	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L
MW-24-5	1935526-02	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
MW-24-5	1935526-02	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
MW-24-5	1935526-02	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
MW-24-5	1935526-02	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
MW-24-5	1935526-02	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
MW-24-5	1935526-02	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
MW-24-5	1935526-02	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
MW-24-5	1935526-02	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
MW-24-5	1935526-02	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
MW-24-5	1935526-02	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1935526-02	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-5	1935526-02	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-24-5	1935526-02	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-24-5	1935526-02	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-5	1935526-02	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-5	1935526-02	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-24-5	1935526-02	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-24-5	1935526-02	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-5	1935526-02	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-24-5	1935526-02	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-5	1935526-02	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-5	1935526-02	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-24-5	1935526-02	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1935526-02	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-24-5	1935526-02	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-24-5	1935526-02	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-24-5	1935526-02	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-24-5	1935526-02	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-24-5	1935526-02	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-24-5	1935526-02	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-24-5	1935526-02	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-24-5	1935526-02	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-24-5	1935526-02	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935526

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-24-5	1935526-02	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-101619	1935526-01	Bromomethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-101619	1935526-01	n-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	sec-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-101619	1935526-01	Bromoform	10/21/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-3-101619	1935526-01	cis-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	Ethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	1,1-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-101619	1935526-01	Carbon tetrachloride	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	tert-Butylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-101619	1935526-01	Bromodichloromethane	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-101619	1935526-01	Chlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	trans-1,3-Dichloropropene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-101619	1935526-01	4-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-3-101619	1935526-01	Hexachlorobutadiene	10/21/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-3-101619	1935526-01	Isopropylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	p-Isopropyltoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	Methylene chloride	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-101619	1935526-01	Methyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	Naphthalene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-101619	1935526-01	n-Propylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-101619	1935526-01	Bromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-101619	1935526-01	1,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	1,2-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	1,1-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1935526

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-3-101619	1935526-01	cis-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-3-101619	1935526-01	trans-1,2-Dichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	1,1-Dichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	Acetone	10/21/2019	10	Y	n	u		10	6.6	ug/L
TB-3-101619	1935526-01	Styrene	10/21/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-3-101619	1935526-01	Dichlorodifluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	Chloromethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-101619	1935526-01	1,3-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-3-101619	1935526-01	Chloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	1,3-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-101619	1935526-01	2,2-Dichloropropane	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-101619	1935526-01	1,2-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-101619	1935526-01	Dibromomethane	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-101619	1935526-01	1,2-Dibromoethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-101619	1935526-01	1,2-Dibromo-3-chloropropane	10/21/2019	1	Y	n	u		1.0	0.89	ug/L
TB-3-101619	1935526-01	Dibromochloromethane	10/21/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-3-101619	1935526-01	2-Chlorotoluene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	Chloroform	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	1,4-Dichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	2-Hexanone	10/21/2019	10	Y	n	u		10	5.0	ug/L
TB-3-101619	1935526-01	Allyl chloride	10/21/2019	5	Y	n	u		5.0	0.47	ug/L
TB-3-101619	1935526-01	Methyl acrylate	10/21/2019	0	Y	y	v				ug/L
TB-3-101619	1935526-01	1,1-Dichloropropanone	10/21/2019	0	Y	y	v				ug/L
TB-3-101619	1935526-01	1-Chlorobutane	10/21/2019	0	Y	y	v				ug/L
TB-3-101619	1935526-01	Chloroacetonitrile	10/21/2019	0	Y	y	v				ug/L

SDG: 1935526

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-3-101619	1935526-01	trans-1,4-Dichloro-2-butene	10/21/2019	5	Y	n	u		5.0	1.8	ug/L
TB-3-101619	1935526-01	Diethyl ether	10/21/2019	2	Y	n	u		2.0	0.33	ug/L
TB-3-101619	1935526-01	Ethyl methacrylate	10/21/2019	4	Y	n	u		4.0	1.3	ug/L
TB-3-101619	1935526-01	Nitrobenzene	10/21/2019	0	Y	y	v				ug/L
TB-3-101619	1935526-01	Hexachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-101619	1935526-01	2-Nitropropane	10/21/2019	0	Y	y	v				ug/L
TB-3-101619	1935526-01	Methacrylonitrile	10/21/2019	10	Y	n	u		10	2.3	ug/L
TB-3-101619	1935526-01	Methyl ethyl ketone	10/21/2019	10	Y	n	u		10	3.3	ug/L
TB-3-101619	1935526-01	Methyl iodide	10/21/2019	2	Y	n	u		2.0	1.1	ug/L
TB-3-101619	1935526-01	Methyl isobutyl ketone	10/21/2019	10	Y	n	u		10	2.4	ug/L
TB-3-101619	1935526-01	Methyl methacrylate	10/21/2019	5	Y	n	u		5.0	1.2	ug/L
TB-3-101619	1935526-01	Pentachloroethane	10/21/2019	2	Y	n	u		2.0	0.63	ug/L
TB-3-101619	1935526-01	Propionitrile	10/21/2019	20	Y	n	u		20	6.2	ug/L
TB-3-101619	1935526-01	Tetrahydrofuran	10/21/2019	20	Y	n	u		20	5.2	ug/L
TB-3-101619	1935526-01	p- & m-Xylenes	10/21/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-3-101619	1935526-01	Ethyl t-butyl ether	10/21/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-3-101619	1935526-01	Acrylonitrile	10/21/2019	5	Y	n	u		5.0	1.5	ug/L
TB-3-101619	1935526-01	1,1,2,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	Tetrachloroethene	10/21/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-3-101619	1935526-01	Toluene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	1,2,3-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-101619	1935526-01	1,2,4-Trichlorobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	1,1,1-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-101619	1935526-01	1,1,2-Trichloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-101619	1935526-01	Trichloroethene	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935526

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-3-101619	1935526-01	Benzene	10/21/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-3-101619	1935526-01	1,2,3-Trichloropropane	10/21/2019	1	Y	n	u		1.0	0.78	ug/L
TB-3-101619	1935526-01	1,1,1,2-Tetrachloroethane	10/21/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-3-101619	1935526-01	o-Xylene	10/21/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-3-101619	1935526-01	1,2,4-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-3-101619	1935526-01	1,3,5-Trimethylbenzene	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-3-101619	1935526-01	Vinyl chloride	10/21/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-3-101619	1935526-01	Bromobenzene	10/21/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-3-101619	1935526-01	t-Amyl Methyl ether	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-101619	1935526-01	t-Butyl alcohol	10/21/2019	10	Y	n	u		10	9.4	ug/L
TB-3-101619	1935526-01	Carbon disulfide	10/21/2019	1	Y	n	u		1.0	0.48	ug/L
TB-3-101619	1935526-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/21/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-3-101619	1935526-01	Trichlorofluoromethane	10/21/2019	0.5	Y	n	u		0.50	0.14	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935709

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-4-101719	1935709-01	Water	10/17/19
MW-3-5	1935709-02	Water	10/17/19
MW-3-4	1935709-03	Water	10/17/19
MW-3-3**	1935709-04**	Water	10/17/19
MW-3-2	1935709-05	Water	10/17/19
MW-3-1	1935709-06	Water	10/17/19
MW-17-5	1935709-07	Water	10/17/19
MW-17-4	1935709-08	Water	10/17/19
MW-17-3	1935709-09	Water	10/17/19
MW-17-2	1935709-10	Water	10/17/19
MW-17-1	1935709-11	Water	10/17/19
EB-4-101719	1935709-12	Water	10/17/19
MW-3-3MS	1935709-04MS	Water	10/17/19
MW-3-3MSD	1935709-04MSD	Water	10/17/19

**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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/22/19 (22OCT02)	Carbon tetrachloride 2,2-Dichloropropane	38.5 37.4	All samples in SDG 1935709	UJ (all non-detects) UJ (all non-detects)	P
10/22/19 (22OCT02)	Methyl iodide	75.7	All samples in SDG 1935709	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-4-101719 was identified as a trip blank. No contaminants were found.

Sample EB-4-101719 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1935709**

Sample	Compound	Flag	A or P	Reason
TB-4-101719 MW-3-5 MW-3-4 MW-3-3** MW-3-2 MW-3-1 MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 EB-4-101719	Carbon tetrachloride 2,2-Dichloropropane Methyl iodide	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

**NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1935709**

No Sample Data Qualified in this SDG

LDC #: 46532D1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935709

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 11/17/19

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	$RSD \leq 37\%$ $20\% \cdot Y^2$ $10 \leq 37\%$
IV.	Continuing calibration	SW	$CV \leq 37\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	FB=1. EB=1/2
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCM
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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-4-101719	1935709-01	Water	10/17/19
2	MW-3-5	1935709-02	Water	10/17/19
3	MW-3-4	1935709-03	Water	10/17/19
4	MW-3-3**	1935709-04**	Water	10/17/19
5	MW-3-2	1935709-05	Water	10/17/19
6	MW-3-1	1935709-06	Water	10/17/19
7	MW-17-5	1935709-07	Water	10/17/19
8	MW-17-4	1935709-08	Water	10/17/19
9	MW-17-3	1935709-09	Water	10/17/19
10	MW-17-2	1935709-10	Water	10/17/19
11	MW-17-1	1935709-11	Water	10/17/19
12	EB-4-101719	1935709-12	Water	10/17/19
13	MW-3-3MS	1935709-04MS	Water	10/17/19
14	MW-3-3MSD	1935709-04MSD	Water	10/17/19

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) \leq 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $<$ 30%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) of continuing calibration $<$ 30%?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a laboratory blank analyzed with each analysis batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

METHOD: GC/MS VOA (EPA Method 524.2)

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

- (Y) N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
- (Y) N/A Were all percent differences (%D) \leq 30%?

#	Date	Standard ID	Compound	Finding %D (Limit: \leq 30.0%)	Associated Samples	Qualifications
	<u>10/22/19</u>	<u>220CT02</u>	<u>0</u>	<u>38.5</u>	<u>All</u>	<u>N/A</u>
	<u>10/22/19</u>	<u>220CT02</u>	<u>Methyl iodide</u>	<u>37.4</u> <u>75.7</u>		<u>↓</u>

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

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)	10/4/19	K (1st internal standard)	0.7215136	0.7215136	0.6924436	0.6924436	6.702173	6.702
			S (2nd internal standard)	0.3384052	0.3384051	0.3454039	0.345039	4.045952	4.046
			EE (3rd internal standard)	2.023053	2.023053	2.055444	2.055444	10.94163	10.942
			(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	22OCT02	10/22/19	K (1st internal standard)	0.6924436	0.8123933	0.8123933	17.3	17.3
			S (2nd internal standard)	0.3454039	0.3602248	0.3602248	4.3	4.3
			EE (3rd internal standard)	2.055444	1.94921	1.94921	5.2	5.2
			HHH (4th internal standard)					
2			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
3			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
4			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					

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

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	9.77	97.7	97.7	
Bromofluorobenzene	↓	99.5	99.5	99.5	
1,2-Dichlorobenzene-d4 <u>1,2-DCA</u>	↓	113	113	113	
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: 12/14

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	26.850	27.220	107	107	109	109	1.37	1.37
Trichloroethene	↓	↓	↓	24.870	25.640	99.3	99.3	103	103	3.25	3.25
Benzene	↓	↓	↓	23.680	24.290	94.7	94.7	95.2	95.2	2.54	2.54
Toluene	↓	↓	↓	23.710	23.920	94.8	94.8	95.7	95.7	0.882	0.882
Chlorobenzene	↓	↓	↓	23.330	23.700	93.3	93.3	94.8	94.8	1.57	1.57

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 #: 46532-D19

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: B060155-DS1

Compound	Spike Added (<u>NA</u>)		Spiked Sample Concentration (<u>NA</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>26.550</u>	<u>NA</u>	<u>106</u>	<u>106</u>				
Trichloroethene	↓	↓	<u>25.350</u>	↓	<u>101</u>	<u>101</u>				
Benzene	↓	↓	<u>23.410</u>	↓	<u>93.6</u>	<u>93.6</u>				
Toluene	↓	↓	<u>23.060</u>	↓	<u>92.2</u>	<u>92.2</u>				
Chlorobenzene	↓	↓	<u>23.460</u>	↓	<u>93.8</u>	<u>93.8</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.

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

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

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

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

Example:

Sample I.D. 4, I:

$$\text{Conc.} = \frac{(8845)(10.0)(1)}{(1945)(1.110054)()}$$

$$= 0.41 \text{ ug/L}$$

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration ()	Qualification
	<u>4</u>	<u>I</u>	<u>0.41</u>		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935709

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-5	1935709-02	Water	10/17/19
MW-3-4	1935709-03	Water	10/17/19
MW-3-3**	1935709-04**	Water	10/17/19
MW-3-2	1935709-05	Water	10/17/19
MW-3-1	1935709-06	Water	10/17/19
MW-17-5	1935709-07	Water	10/17/19
MW-17-4	1935709-08	Water	10/17/19
MW-17-3	1935709-09	Water	10/17/19
MW-17-2	1935709-10	Water	10/17/19
MW-17-1	1935709-11	Water	10/17/19
EB-4-101719	1935709-12	Water	10/17/19
MW-3-3MS	1935709-04MS	Water	10/17/19
MW-3-3MSD	1935709-04MSD	Water	10/17/19
MW-3-3DUP	1935709-04DUP	Water	10/17/19

**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.

VI. Field Blanks

Sample EB-4-101719 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 analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1935709

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1935709

No Sample Data Qualified in this SDG

LDC #: 46532D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/5/19

SDG #: 1935709

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

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

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

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-3-5	1935709-02	Water	10/17/19
2	MW-3-4	1935709-03	Water	10/17/19
3	MW-3-3**	1935709-04**	Water	10/17/19
4	MW-3-2	1935709-05	Water	10/17/19
5	MW-3-1	1935709-06	Water	10/17/19
6	MW-17-5	1935709-07	Water	10/17/19
7	MW-17-4	1935709-08	Water	10/17/19
8	MW-17-3	1935709-09	Water	10/17/19
9	MW-17-2	1935709-10	Water	10/17/19
10	MW-17-1	1935709-11	Water	10/17/19
11	EB-4-101719	1935709-12	Water	10/17/19
12	MW-3-3MS	1935709-04MS	Water	10/17/19
13	MW-3-3MSD	1935709-04MSD	Water	10/17/19
14	MW-3-3DUP	1935709-04DUP	Water	10/17/19
15				

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

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

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

DC #: 46532D4a

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: ML
 2nd Reviewer: CL

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) 10/21 @ 12:22	Cr	50.772	50.000	102	102	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 10/21 @ 21:42	Cr	40.737	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	207.977	207.929	± 0.1 AMU	NA	Y
	%RSD	114.9	60438.7	≤ 5% RSD	1.3	Y

Comments:

LDC #: 46532D4a

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						
LCS	Laboratory control sample 10/21 @ 21:30	Cr	44.615	40.000	112	112	Y
12	Matrix spike 10/21 @ 21:37	Cr	(SSR-SR) 36.700	40.000	91.8	91.8	Y
14	Duplicate 10/21 @ 21:38 33	Cr	1.795	2.0910	15.2	15.2	Y
3	Post digestion spike 10/21 @ 21:40	Cr	39.11	40.000	97.8	97.9	Y
3	ICP serial dilution 10/21 @ 21:35	Cr	0.590	2.0910	N.C	N.C	Y

Comments: _____

LDC #: 46532D4a

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: ATV

2nd reviewer: [Signature]

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

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

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

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

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

Recalculation: #3

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

$$2.091 \approx 2.1$$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	3	Cr (10/21 @ 21:31)	2.1	2.1	Y

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935709

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-5	1935709-02	Water	10/17/19
MW-3-4	1935709-03	Water	10/17/19
MW-3-3**	1935709-04**	Water	10/17/19
MW-3-2	1935709-05	Water	10/17/19
MW-3-1	1935709-06	Water	10/17/19
MW-17-5	1935709-07	Water	10/17/19
MW-17-4	1935709-08	Water	10/17/19
MW-17-3	1935709-09	Water	10/17/19
MW-17-2	1935709-10	Water	10/17/19
MW-17-1	1935709-11	Water	10/17/19
EB-4-101719	1935709-12	Water	10/17/19
MW-3-3MS	1935709-04MS	Water	10/17/19
MW-3-3MSD	1935709-04MSD	Water	10/17/19
MW-3-3DUP	1935709-04DUP	Water	10/17/19

**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) Method 218.6
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
PB (prep blank)	Hexavalent chromium	0.00005 mg/L	EB-4-101719
ICB/CCB	Hexavalent chromium	0.000045 mg/L	EB-4-101719

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
EB-4-101719	Hexavalent chromium	0.00004 mg/L	0.00004U mg/L

V. Field Blanks

Sample EB-4-101719 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-4-101719	Hexavalent chromium	0.000040 mg/L

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to 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.

**NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1935709**

No Sample Data Qualified in this SDG

**NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1935709**

Sample	Analyte	Modified Final Concentration	A or P
EB-4-101719	Hexavalent chromium	0.00004U mg/L	A

LDC #: 46532D6

VALIDATION COMPLETENESS WORKSHEET

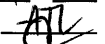
SDG #: 1935709

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/5/19

Page: 1 of 1

Reviewer: 2nd Reviewer: **METHOD: (Analyte) Hexavalent Chromium (EPA Method 218.6), 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	SW	EB = 11
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12, 13)
VII.	Duplicate sample analysis	A	14
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for Level III validation
XI.	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-3-5	1935709-02	Water	10/17/19
2	MW-3-4	1935709-03	Water	10/17/19
3	MW-3-3**	1935709-04**	Water	10/17/19
4	MW-3-2	1935709-05	Water	10/17/19
5	MW-3-1	1935709-06	Water	10/17/19
6	MW-17-5	1935709-07	Water	10/17/19
7	MW-17-4	1935709-08	Water	10/17/19
8	MW-17-3	1935709-09	Water	10/17/19
9	MW-17-2	1935709-10	Water	10/17/19
10	MW-17-1	1935709-11	Water	10/17/19
11	EB-4-101719	1935709-12	Water	10/17/19
12	MW-3-3MS	1935709-04MS	Water	10/17/19
13	MW-3-3MSD	1935709-04MSD	Water	10/17/19
14	MW-3-3DUP	1935709-04DUP	Water	10/17/19
15				
16				

Notes:

Method: Inorganics (EPA Method See over)

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

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

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

Comments: _____

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 11

Analyte	Blank ID	Blank ID	Blank Action Limit													
	PB	ICB/CCB (mg/L)		11												
Cr6+		0.000045	0.000225	see below												
Cr6+	0.00005		0.00025	0.00004												

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 #: 46532D6

SDG #: 1935709

VALIDATION FINDINGS WORKSHEET

Field Blanks

Page: 1 of 1

Reviewer: ATL

2nd reviewer: 

METHOD: Inorganics

N N/A

Were field blanks identified in this SDG?

N N/A

Were target analytes detected in the field blanks?

Sample: 11 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (mg/L)
Cr6+	0.000040

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

Analyte	Concentration Units ()

LDC #: 46532DG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 10/18/19

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	Cr6+	s1	0.2	0.022	1.0000	0.9999	Y
		s2	2	0.252			
		s3	10	1.27			
		s4	25	3.144			
		s5	50	6.336			
CCV ₁ (10/18 e17:43) Calibration verification	Cr6+	FOUND 25.183	TRUE 25.000		101	101	Y
CCV ₁ (11/7 e 01:16) Calibration verification	ClO ₄ ⁻	11.000	10.000		110	100	Y
CCV ₄ (11/7 e 15:32) Calibration verification	ClO ₄ ⁻	11.000	10.000		110	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 10/19 e 15:46	Cr6+	0.0214 mg/L	0.0200 mg/L	107	107	Y
12	Matrix spike sample	ClO4 ⁻	(SSR-SR) 11.600 mg/L	10.101 mg/L	115	105	Y
12/13	Duplicate sample	ClO4 ⁻	13.000 mg/L	12.028 mg/L	7.77	2.45	Y

Comments: _____

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: Inorganics, Method See cover

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

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

Compound (analyte) results for Cr6+ reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation: #3

$$\frac{A + 0.0017}{0.1265}$$

$$\frac{0.130 + 0.0017}{0.1265} \times \frac{1}{1000} = 0.00104 \approx 0.0010$$

#	Sample ID	Analyte	Reported Concentration ()	Calculated Concentration ()	Acceptable (Y/N)
	3	Cr6+ (10/18 e 16:26)	0.0010 mg/L	0.0010 mg/L	Y
	3	ClO4- (11/6 e 23:44)	1.4 mg/L	2.0 mg/L	Y

NASA JPL, 4Q2019 - LDC#46532

SDG: 1935709

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-4-101719	1935709-12	Total Recoverable Chromium	10/21/2019	3	Y	n	u		3.0	0.50	ug/L
MW-17-1	1935709-11	Total Recoverable Chromium	10/21/2019	3	Y	n	u		3.0	0.50	ug/L
MW-17-2	1935709-10	Total Recoverable Chromium	10/21/2019	3	Y	n	u		3.0	0.50	ug/L
MW-17-3	1935709-09	Total Recoverable Chromium	10/21/2019	3	Y	n	u		3.0	0.50	ug/L
MW-17-4	1935709-08	Total Recoverable Chromium	10/21/2019	1.5	Y	y	v j		3.0	0.50	ug/L
MW-17-5	1935709-07	Total Recoverable Chromium	10/21/2019	1.6	Y	y	v j		3.0	0.50	ug/L
MW-3-1	1935709-06	Total Recoverable Chromium	10/21/2019	3	Y	n	u		3.0	0.50	ug/L
MW-3-2	1935709-05	Total Recoverable Chromium	10/21/2019	3	Y	n	u		3.0	0.50	ug/L
MW-3-3	1935709-04	Total Recoverable Chromium	10/21/2019	2.1	Y	y	v j		3.0	0.50	ug/L
MW-3-4	1935709-03	Total Recoverable Chromium	10/21/2019	95	Y	y	v		3.0	0.50	ug/L
MW-3-5	1935709-02	Total Recoverable Chromium	10/21/2019	3.6	Y	y	v		3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-101719	1935709-12	Hexavalent Chromium	10/19/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-17-1	1935709-11	Hexavalent Chromium	10/18/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-17-2	1935709-10	Hexavalent Chromium	10/18/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-17-3	1935709-09	Hexavalent Chromium	10/18/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-17-4	1935709-08	Hexavalent Chromium	10/18/2019	0.0014	Y	y	v		0.0002	0.0000	mg/L
MW-17-5	1935709-07	Hexavalent Chromium	10/18/2019	0.0012	Y	y	v		0.0002	0.0000	mg/L
MW-3-1	1935709-06	Hexavalent Chromium	10/18/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-3-2	1935709-05	Hexavalent Chromium	10/18/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-3-3	1935709-04	Hexavalent Chromium	10/18/2019	0.001	Y	y	v		0.0002	0.0000	mg/L
MW-3-4	1935709-03	Hexavalent Chromium	10/18/2019	#####	Y	y	v j		0.0002	0.0000	mg/L

SDG: 1935709

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-5	1935709-02	Hexavalent Chromium	10/18/2019	#####	Y	y	v j		0.0002	0.0000	mg/L

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-101719	1935709-12	Perchlorate	11/7/2019	4	Y	n	u		4.0	0.76	ug/L
MW-17-1	1935709-11	Perchlorate	11/7/2019	4	Y	n	u		4.0	0.76	ug/L
MW-17-2	1935709-10	Perchlorate	11/7/2019	4	Y	n	u		4.0	0.76	ug/L
MW-17-3	1935709-09	Perchlorate	11/7/2019	4.6	Y	y	v		4.0	0.76	ug/L
MW-17-4	1935709-08	Perchlorate	11/7/2019	3.8	Y	y	v j		4.0	0.76	ug/L
MW-17-5	1935709-07	Perchlorate	11/7/2019	4.2	Y	y	v		4.0	0.76	ug/L
MW-3-1	1935709-06	Perchlorate	11/7/2019	4	Y	n	u		4.0	0.76	ug/L
MW-3-2	1935709-05	Perchlorate	11/7/2019	4	Y	n	u		4.0	0.76	ug/L
MW-3-3	1935709-04	Perchlorate	11/6/2019	1.4	Y	y	v j		4.0	0.76	ug/L
MW-3-4	1935709-03	Perchlorate	11/7/2019	0.96	Y	y	v j		4.0	0.76	ug/L
MW-3-5	1935709-02	Perchlorate	11/7/2019	0.93	Y	y	v j		4.0	0.76	ug/L

Analytical Method											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-101719	1935709-12	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
EB-4-101719	1935709-12	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
EB-4-101719	1935709-12	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
EB-4-101719	1935709-12	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-101719	1935709-12	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-101719	1935709-12	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-101719	1935709-12	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-101719	1935709-12	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935709

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-4-101719	1935709-12	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
EB-4-101719	1935709-12	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
EB-4-101719	1935709-12	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-101719	1935709-12	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
EB-4-101719	1935709-12	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
EB-4-101719	1935709-12	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
EB-4-101719	1935709-12	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
EB-4-101719	1935709-12	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
EB-4-101719	1935709-12	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-4-101719	1935709-12	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
EB-4-101719	1935709-12	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
EB-4-101719	1935709-12	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
EB-4-101719	1935709-12	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
EB-4-101719	1935709-12	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-4-101719	1935709-12	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
EB-4-101719	1935709-12	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
EB-4-101719	1935709-12	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
EB-4-101719	1935709-12	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
EB-4-101719	1935709-12	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-4-101719	1935709-12	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-101719	1935709-12	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
EB-4-101719	1935709-12	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
EB-4-101719	1935709-12	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-101719	1935709-12	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935709

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-4-101719	1935709-12	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-101719	1935709-12	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
EB-4-101719	1935709-12	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-101719	1935709-12	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-101719	1935709-12	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-101719	1935709-12	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-101719	1935709-12	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-101719	1935709-12	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-101719	1935709-12	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-101719	1935709-12	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-4-101719	1935709-12	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
EB-4-101719	1935709-12	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-101719	1935709-12	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-101719	1935709-12	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-101719	1935709-12	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-101719	1935709-12	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-101719	1935709-12	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-101719	1935709-12	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-101719	1935709-12	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-4-101719	1935709-12	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935709

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-4-101719	1935709-12	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-101719	1935709-12	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-101719	1935709-12	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-4-101719	1935709-12	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-4-101719	1935709-12	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-101719	1935709-12	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-4-101719	1935709-12	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-101719	1935709-12	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-101719	1935709-12	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
EB-4-101719	1935709-12	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-4-101719	1935709-12	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-101719	1935709-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-4-101719	1935709-12	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
EB-4-101719	1935709-12	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-101719	1935709-12	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-101719	1935709-12	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-4-101719	1935709-12	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-4-101719	1935709-12	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-101719	1935709-12	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-4-101719	1935709-12	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-4-101719	1935709-12	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-4-101719	1935709-12	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-4-101719	1935709-12	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
EB-4-101719	1935709-12	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935709

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-4-101719	1935709-12	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-4-101719	1935709-12	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-4-101719	1935709-12	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-4-101719	1935709-12	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1935709-11	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1935709-11	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-17-1	1935709-11	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1935709-11	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-1	1935709-11	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-1	1935709-11	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-1	1935709-11	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-1	1935709-11	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1935709-11	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1935709-11	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-1	1935709-11	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1935709-11	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1935709-11	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-1	1935709-11	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-1	1935709-11	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1935709-11	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-1	1935709-11	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-17-1	1935709-11	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-1	1935709-11	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-1	1935709-11	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-1	1935709-11	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-1	1935709-11	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-1	1935709-11	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-1	1935709-11	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1935709-11	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-1	1935709-11	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1935709-11	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-1	1935709-11	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-1	1935709-11	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-17-1	1935709-11	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-17-1	1935709-11	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-17-1	1935709-11	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-1	1935709-11	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-17-1	1935709-11	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-17-1	1935709-11	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-1	1935709-11	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-1	1935709-11	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-17-1	1935709-11	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-17-1	1935709-11	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-17-1	1935709-11	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-17-1	1935709-11	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-17-1	1935709-11	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-17-1	1935709-11	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-17-1	1935709-11	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-17-1	1935709-11	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-1	1935709-11	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-1	1935709-11	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-17-1	1935709-11	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-17-1	1935709-11	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-17-1	1935709-11	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-1	1935709-11	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-1	1935709-11	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1935709-11	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1935709-11	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-1	1935709-11	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-1	1935709-11	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1935709-11	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-1	1935709-11	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-1	1935709-11	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-17-1	1935709-11	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1935709-11	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-1	1935709-11	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-17-1	1935709-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-1	1935709-11	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-1	1935709-11	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-1	1935709-11	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-1	1935709-11	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-17-1	1935709-11	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-17-1	1935709-11	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-17-1	1935709-11	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-17-1	1935709-11	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1935709-10	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1935709-10	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1935709-10	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1935709-10	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1935709-10	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1935709-10	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

Analytical 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	1935709-10	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1935709-10	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-2	1935709-10	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1935709-10	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1935709-10	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1935709-10	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1935709-10	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1935709-10	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1935709-10	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1935709-10	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-2	1935709-10	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1935709-10	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-2	1935709-10	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-2	1935709-10	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1935709-10	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-2	1935709-10	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-17-2	1935709-10	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1935709-10	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935709

Analytical 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	1935709-10	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1935709-10	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-2	1935709-10	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1935709-10	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-17-2	1935709-10	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-2	1935709-10	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1935709-10	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1935709-10	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-17-2	1935709-10	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-17-2	1935709-10	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-17-2	1935709-10	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-2	1935709-10	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-17-2	1935709-10	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-17-2	1935709-10	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-17-2	1935709-10	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-2	1935709-10	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-17-2	1935709-10	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-17-2	1935709-10	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1935709-10	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-17-2	1935709-10	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-2	1935709-10	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-2	1935709-10	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L

SDG: 1935709

Analytical 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	1935709-10	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-17-2	1935709-10	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-17-2	1935709-10	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-17-2	1935709-10	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-17-2	1935709-10	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-17-2	1935709-10	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-2	1935709-10	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-2	1935709-10	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1935709-10	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-2	1935709-10	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1935709-10	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1935709-10	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-2	1935709-10	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1935709-10	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-17-2	1935709-10	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1935709-10	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-17-2	1935709-10	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-17-2	1935709-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-2	1935709-10	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-2	1935709-10	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-2	1935709-10	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-2	1935709-10	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-17-2	1935709-10	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-17-2	1935709-10	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L

SDG: 1935709

Analytical 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	1935709-10	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-17-2	1935709-10	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-2	1935709-10	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-17-3	1935709-09	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1935709-09	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1935709-09	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1935709-09	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-3	1935709-09	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1935709-09	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1935709-09	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1935709-09	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1935709-09	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1935709-09	Tetrachloroethene	10/22/2019	0.33	Y	y	v j		0.50	0.23	ug/L
MW-17-3	1935709-09	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1935709-09	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1935709-09	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1935709-09	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1935709-09	Chloroform	10/22/2019	0.42	Y	y	v j		0.50	0.14	ug/L
MW-17-3	1935709-09	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1935709-09	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935709

Analytical 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	1935709-09	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-3	1935709-09	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1935709-09	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-17-3	1935709-09	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1935709-09	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-3	1935709-09	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1935709-09	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1935709-09	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	1,1-Dichloroethane	10/22/2019	0.17	Y	y	v j		0.50	0.15	ug/L
MW-17-3	1935709-09	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-3	1935709-09	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-17-3	1935709-09	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-17-3	1935709-09	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-3	1935709-09	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-17-3	1935709-09	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-17-3	1935709-09	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-17-3	1935709-09	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-17-3	1935709-09	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-3	1935709-09	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-17-3	1935709-09	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-17-3	1935709-09	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-17-3	1935709-09	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-17-3	1935709-09	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1935709

Analytical 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	1935709-09	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1935709-09	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-17-3	1935709-09	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1935709-09	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-17-3	1935709-09	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-3	1935709-09	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1935709-09	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-3	1935709-09	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1935709-09	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1935709-09	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-17-3	1935709-09	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-17-3	1935709-09	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1935709-09	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-17-3	1935709-09	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-17-3	1935709-09	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-17-3	1935709-09	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-3	1935709-09	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-3	1935709-09	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-17-3	1935709-09	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-17-3	1935709-09	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1935709-09	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-17-3	1935709-09	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-3	1935709-09	Trichloroethene	10/22/2019	2	Y	y	v		0.50	0.19	ug/L

SDG: 1935709

Analytical 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	1935709-09	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-17-3	1935709-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-3	1935709-09	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-3	1935709-09	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-3	1935709-09	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-17-3	1935709-09	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-3	1935709-09	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1935709-09	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-3	1935709-09	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-3	1935709-09	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-3	1935709-09	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-3	1935709-09	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-3	1935709-09	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-17-4	1935709-08	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-17-4	1935709-08	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-17-4	1935709-08	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-17-4	1935709-08	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1935709-08	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-17-4	1935709-08	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-17-4	1935709-08	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-17-4	1935709-08	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-17-4	1935709-08	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-17-4	1935709-08	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935709

Analytical 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	1935709-08	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-4	1935709-08	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1935709-08	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-17-4	1935709-08	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-17-4	1935709-08	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-4	1935709-08	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-17-4	1935709-08	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-17-4	1935709-08	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-17-4	1935709-08	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-17-4	1935709-08	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1935709-08	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-17-4	1935709-08	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-17-4	1935709-08	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-17-4	1935709-08	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-17-4	1935709-08	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-17-4	1935709-08	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-17-4	1935709-08	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1935709-08	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-4	1935709-08	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-17-4	1935709-08	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1935709-08	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1935709-08	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

Analytical 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	1935709-08	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1935709-08	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1935709-08	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	Trichloroethene	10/22/2019	0.87	Y	y	v		0.50	0.19	ug/L
MW-17-4	1935709-08	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1935709-08	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1935709-08	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-4	1935709-08	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1935709-08	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1935709-08	Tetrachloroethene	10/22/2019	0.5	Y	y	v		0.50	0.23	ug/L
MW-17-4	1935709-08	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1935709-08	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1935709-08	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1935709-08	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-4	1935709-08	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1935709-08	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1935709-08	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-4	1935709-08	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1935709-08	Chloroform	10/22/2019	0.7	Y	y	v		0.50	0.14	ug/L
MW-17-4	1935709-08	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1935709-08	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-17-4	1935709-08	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

Analytical 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	1935709-08	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-17-4	1935709-08	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-4	1935709-08	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1935709-08	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1935709-08	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1935709-08	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-4	1935709-08	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1935709-08	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-4	1935709-08	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-4	1935709-08	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1935709-08	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1935709-08	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1935709-08	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-4	1935709-08	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-4	1935709-08	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-4	1935709-08	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-4	1935709-08	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-17-4	1935709-08	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1935709-08	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1935709-08	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-4	1935709-08	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-4	1935709-08	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-4	1935709-08	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-4	1935709-08	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-4	1935709-08	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

Analytical 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	1935709-08	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-4	1935709-08	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1935709-07	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1935709-07	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1935709-07	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1935709-07	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-5	1935709-07	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-5	1935709-07	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1935709-07	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-17-5	1935709-07	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1935709-07	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1935709-07	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-5	1935709-07	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-5	1935709-07	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1935709-07	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-5	1935709-07	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-5	1935709-07	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-17-5	1935709-07	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-17-5	1935709-07	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-17-5	1935709-07	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-5	1935709-07	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1935709-07	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-5	1935709-07	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-17-5	1935709-07	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-17-5	1935709-07	Chloroform	10/22/2019	0.48	Y	y	v j		0.50	0.14	ug/L
MW-17-5	1935709-07	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-5	1935709-07	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-17-5	1935709-07	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-5	1935709-07	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-17-5	1935709-07	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-17-5	1935709-07	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-17-5	1935709-07	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1935709-07	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-17-5	1935709-07	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-17-5	1935709-07	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-17-5	1935709-07	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-17-5	1935709-07	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-17-5	1935709-07	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-5	1935709-07	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-17-5	1935709-07	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-17-5	1935709-07	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-5	1935709-07	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-17-5	1935709-07	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-17-5	1935709-07	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-17-5	1935709-07	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-17-5	1935709-07	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-17-5	1935709-07	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-17-5	1935709-07	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-17-5	1935709-07	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-17-5	1935709-07	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-17-5	1935709-07	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-17-5	1935709-07	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-17-5	1935709-07	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-17-5	1935709-07	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-17-5	1935709-07	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-5	1935709-07	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1935709-07	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1935709-07	Tetrachloroethene	10/22/2019	0.25	Y	y	v j		0.50	0.23	ug/L
MW-17-5	1935709-07	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1935709-07	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1935709-07	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-17-5	1935709-07	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-5	1935709-07	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-17-5	1935709-07	Trichloroethene	10/22/2019	0.86	Y	y	v		0.50	0.19	ug/L
MW-17-5	1935709-07	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-17-5	1935709-07	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-17-5	1935709-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1935709-07	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-17-5	1935709-07	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-17-5	1935709-07	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-17-5	1935709-07	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-17-5	1935709-07	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-17-5	1935709-07	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-17-5	1935709-07	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-17-5	1935709-07	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-17-5	1935709-07	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-3-1	1935709-06	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-3-1	1935709-06	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1935709-06	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-3-1	1935709-06	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-3-1	1935709-06	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-3-1	1935709-06	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-1	1935709-06	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1935709-06	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-3-1	1935709-06	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-1	1935709-06	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-3-1	1935709-06	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1935709-06	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1935709-06	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1935709-06	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1935709-06	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1935709-06	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-1	1935709-06	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1935709-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-1	1935709-06	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-3-1	1935709-06	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-3-1	1935709-06	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-3-1	1935709-06	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-3-1	1935709-06	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-3-1	1935709-06	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-3-1	1935709-06	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1935709-06	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-1	1935709-06	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-3-1	1935709-06	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-3-1	1935709-06	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-3-1	1935709-06	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-1	1935709-06	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-3-1	1935709-06	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-1	1935709-06	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-1	1935709-06	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-3-1	1935709-06	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-3-1	1935709-06	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-1	1935709-06	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-1	1935709-06	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-3-1	1935709-06	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-3-1	1935709-06	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-3-1	1935709-06	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-1	1935709-06	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-1	1935709-06	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-3-1	1935709-06	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-1	1935709-06	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-1	1935709-06	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-1	1935709-06	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1935709-06	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1935709-06	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-3-1	1935709-06	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-1	1935709-06	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1935709-06	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-1	1935709-06	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-1	1935709-06	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-1	1935709-06	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-1	1935709-06	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-1	1935709-06	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1935709-06	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1935709-06	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-1	1935709-06	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-1	1935709-06	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-1	1935709-06	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-1	1935709-06	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-1	1935709-06	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-3-1	1935709-06	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-1	1935709-06	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1935709-06	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-1	1935709-06	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-1	1935709-06	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-1	1935709-06	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-1	1935709-06	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-1	1935709-06	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-1	1935709-06	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1935709-05	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1935709-05	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1935709-05	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-2	1935709-05	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1935709-05	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1935709-05	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1935709-05	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1935709-05	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1935709-05	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1935709-05	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1935709-05	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-2	1935709-05	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-3-2	1935709-05	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1935709-05	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1935709

Analytical 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	1935709-05	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1935709-05	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-2	1935709-05	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-2	1935709-05	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1935709-05	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1935709-05	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1935709-05	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1935709-05	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-2	1935709-05	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1935709-05	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-3-2	1935709-05	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-2	1935709-05	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1935709-05	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1935709-05	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-3-2	1935709-05	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-3-2	1935709-05	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-3-2	1935709-05	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-2	1935709-05	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-2	1935709-05	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-3-2	1935709-05	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L

SDG: 1935709

Analytical 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	1935709-05	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-3-2	1935709-05	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-3-2	1935709-05	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-3-2	1935709-05	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1935709-05	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-3-2	1935709-05	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-2	1935709-05	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-3-2	1935709-05	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-2	1935709-05	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1935709-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1935709-05	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-3-2	1935709-05	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-2	1935709-05	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1935709-05	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1935709-05	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-3-2	1935709-05	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-3-2	1935709-05	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1935709-05	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-2	1935709-05	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-2	1935709-05	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-2	1935709-05	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-2	1935709-05	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1935709-05	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-2	1935709-05	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L

SDG: 1935709

Analytical 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	1935709-05	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-3-2	1935709-05	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-3-2	1935709-05	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-3-2	1935709-05	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-2	1935709-05	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-2	1935709-05	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-3-2	1935709-05	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-3-2	1935709-05	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-3-2	1935709-05	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-3-2	1935709-05	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-3-2	1935709-05	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-2	1935709-05	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-3-2	1935709-05	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-3-3	1935709-04	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1935709-04	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1935709-04	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1935709-04	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1935709-04	Tetrachloroethene	10/22/2019	0.38	Y	y	v j		0.50	0.23	ug/L
MW-3-3	1935709-04	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1935709-04	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-3	1935709-04	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1935709-04	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935709

Analytical 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	1935709-04	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1935709-04	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-3-3	1935709-04	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1935709-04	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1935709-04	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-3-3	1935709-04	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1935709-04	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-3	1935709-04	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-3-3	1935709-04	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-3-3	1935709-04	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-3-3	1935709-04	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1935709-04	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-3-3	1935709-04	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1935709-04	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-3-3	1935709-04	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1935709-04	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1935709-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1935709-04	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-3-3	1935709-04	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1935709-04	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-3-3	1935709-04	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1935709-04	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935709

Analytical 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	1935709-04	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1935709-04	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1935709-04	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-3	1935709-04	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-3	1935709-04	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-3-3	1935709-04	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1935709-04	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-3	1935709-04	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-3	1935709-04	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1935709-04	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-3	1935709-04	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-3-3	1935709-04	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1935709-04	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-3	1935709-04	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-3	1935709-04	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-3-3	1935709-04	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1935709-04	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-3	1935709-04	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-3	1935709-04	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1935709

Analytical 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	1935709-04	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-3-3	1935709-04	1,1-Dichloroethane	10/22/2019	0.41	Y	y	v j		0.50	0.15	ug/L
MW-3-3	1935709-04	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-3	1935709-04	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-3	1935709-04	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-3	1935709-04	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-3	1935709-04	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-3	1935709-04	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-3	1935709-04	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-3	1935709-04	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-3-3	1935709-04	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-3-3	1935709-04	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-3-3	1935709-04	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-3	1935709-04	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-3-3	1935709-04	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-3-3	1935709-04	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-3-3	1935709-04	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-3-3	1935709-04	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-3-3	1935709-04	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-3	1935709-04	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-3-3	1935709-04	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-3-3	1935709-04	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-3-3	1935709-04	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-3-3	1935709-04	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L

SDG: 1935709

Analytical 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	1935709-03	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-3-4	1935709-03	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1935709-03	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-3-4	1935709-03	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-3-4	1935709-03	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-3-4	1935709-03	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1935709-03	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1935709-03	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-3-4	1935709-03	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-3-4	1935709-03	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1935709-03	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1935709-03	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1935709-03	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1935709-03	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1935709-03	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1935709-03	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1935709-03	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-4	1935709-03	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1935709-03	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1935709-03	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-3-4	1935709-03	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L

SDG: 1935709

Analytical 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	1935709-03	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-3-4	1935709-03	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-4	1935709-03	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
MW-3-4	1935709-03	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-3-4	1935709-03	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-3-4	1935709-03	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1935709-03	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-3-4	1935709-03	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-3-4	1935709-03	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-3-4	1935709-03	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1935709-03	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-3-4	1935709-03	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-4	1935709-03	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-3-4	1935709-03	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-3-4	1935709-03	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-3-4	1935709-03	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1935709-03	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-3-4	1935709-03	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1935709-03	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-3-4	1935709-03	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-3-4	1935709-03	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-3-4	1935709-03	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-4	1935709-03	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-4	1935709-03	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1935709-03	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L

SDG: 1935709

Analytical 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	1935709-03	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-4	1935709-03	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-4	1935709-03	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1935709-03	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1935709-03	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-4	1935709-03	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-3-4	1935709-03	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1935709-03	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1935709-03	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1935709-03	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-4	1935709-03	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1935709-03	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1935709-03	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-4	1935709-03	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-4	1935709-03	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-4	1935709-03	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-4	1935709-03	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1935709-03	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935709

Analytical 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	1935709-03	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-4	1935709-03	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
MW-3-4	1935709-03	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-4	1935709-03	1,1-Dichloroethane	10/22/2019	0.16	Y	y	v j		0.50	0.15	ug/L
MW-3-4	1935709-03	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-4	1935709-03	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-4	1935709-03	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-4	1935709-03	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1935709-03	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-4	1935709-03	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-5	1935709-02	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-5	1935709-02	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1935709-02	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-5	1935709-02	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-5	1935709-02	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-5	1935709-02	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-5	1935709-02	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-3-5	1935709-02	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
MW-3-5	1935709-02	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-5	1935709-02	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-3-5	1935709-02	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
MW-3-5	1935709-02	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
MW-3-5	1935709-02	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L
MW-3-5	1935709-02	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-5	1935709-02	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
MW-3-5	1935709-02	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-5	1935709-02	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-3-5	1935709-02	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
MW-3-5	1935709-02	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
MW-3-5	1935709-02	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-3-5	1935709-02	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
MW-3-5	1935709-02	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
MW-3-5	1935709-02	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-5	1935709-02	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
MW-3-5	1935709-02	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
MW-3-5	1935709-02	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
MW-3-5	1935709-02	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
MW-3-5	1935709-02	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
MW-3-5	1935709-02	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-5	1935709-02	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-5	1935709-02	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
MW-3-5	1935709-02	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1935709-02	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
MW-3-5	1935709-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1935709-02	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-3-5	1935709-02	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
MW-3-5	1935709-02	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
MW-3-5	1935709-02	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
MW-3-5	1935709-02	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1935709-02	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
MW-3-5	1935709-02	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
MW-3-5	1935709-02	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-5	1935709-02	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-5	1935709-02	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-5	1935709-02	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1935709-02	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
MW-3-5	1935709-02	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L

SDG: 1935709

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-5	1935709-02	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-3-5	1935709-02	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-3-5	1935709-02	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
MW-3-5	1935709-02	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
MW-3-5	1935709-02	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1935709-02	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-3-5	1935709-02	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1935709-02	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-3-5	1935709-02	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	1,1-Dichloroethane	10/22/2019	0.17	Y	y	v j		0.50	0.15	ug/L
MW-3-5	1935709-02	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-3-5	1935709-02	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-3-5	1935709-02	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-3-5	1935709-02	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-3-5	1935709-02	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-5	1935709-02	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-3-5	1935709-02	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-3-5	1935709-02	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-3-5	1935709-02	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-3-5	1935709-02	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-3-5	1935709-02	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-101719	1935709-01	1,2,4-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

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-4-101719	1935709-01	1,1,1-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-101719	1935709-01	1,1,2-Trichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-101719	1935709-01	Toluene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-101719	1935709-01	Tetrachloroethene	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-101719	1935709-01	Trichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-101719	1935709-01	1,2,3-Trichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-101719	1935709-01	1,1,1,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-101719	1935709-01	p-Isopropyltoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	Hexachlorobutadiene	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-101719	1935709-01	Acrylonitrile	10/22/2019	5	Y	n	u		5.0	1.5	ug/L
TB-4-101719	1935709-01	Isopropylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	Styrene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-101719	1935709-01	n-Propylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-4-101719	1935709-01	Naphthalene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-101719	1935709-01	Methyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	Methylene chloride	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-101719	1935709-01	1,1,2,2-Tetrachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-101719	1935709-01	Diethyl ether	10/22/2019	2	Y	n	u		2.0	0.33	ug/L
TB-4-101719	1935709-01	Ethyl t-butyl ether	10/22/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-4-101719	1935709-01	Hexachloroethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-101719	1935709-01	2-Hexanone	10/22/2019	10	Y	n	u		10	5.0	ug/L
TB-4-101719	1935709-01	Methacrylonitrile	10/22/2019	10	Y	n	u		10	2.3	ug/L
TB-4-101719	1935709-01	Methyl ethyl ketone	10/22/2019	10	Y	n	u		10	3.3	ug/L
TB-4-101719	1935709-01	Methyl iodide	10/22/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-4-101719	1935709-01	Ethyl methacrylate	10/22/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935709

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-4-101719	1935709-01	Methyl isobutyl ketone	10/22/2019	10	Y	n	u		10	2.4	ug/L
TB-4-101719	1935709-01	4-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-4-101719	1935709-01	Methyl methacrylate	10/22/2019	5	Y	n	u		5.0	1.2	ug/L
TB-4-101719	1935709-01	Vinyl chloride	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-101719	1935709-01	Pentachloroethane	10/22/2019	2	Y	n	u		2.0	0.63	ug/L
TB-4-101719	1935709-01	Trichlorofluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	trans-1,4-Dichloro-2-butene	10/22/2019	5	Y	n	u		5.0	1.8	ug/L
TB-4-101719	1935709-01	Carbon disulfide	10/22/2019	1	Y	n	u		1.0	0.48	ug/L
TB-4-101719	1935709-01	t-Butyl alcohol	10/22/2019	10	Y	n	u		10	9.4	ug/L
TB-4-101719	1935709-01	t-Amyl Methyl ether	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-101719	1935709-01	Allyl chloride	10/22/2019	5	Y	n	u		5.0	0.47	ug/L
TB-4-101719	1935709-01	Acetone	10/22/2019	10	Y	n	u		10	6.6	ug/L
TB-4-101719	1935709-01	1,3,5-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	1,2,4-Trimethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-101719	1935709-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-101719	1935709-01	1,2,3-Trichloropropane	10/22/2019	1	Y	n	u		1.0	0.78	ug/L
TB-4-101719	1935709-01	Ethylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-101719	1935709-01	Propionitrile	10/22/2019	20	Y	n	u		20	6.2	ug/L
TB-4-101719	1935709-01	1,2-Dibromo-3-chloropropane	10/22/2019	1	Y	n	u		1.0	0.89	ug/L
TB-4-101719	1935709-01	tert-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-4-101719	1935709-01	sec-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-101719	1935709-01	n-Butylbenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-101719	1935709-01	Bromomethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-4-101719	1935709-01	Bromoform	10/22/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-4-101719	1935709-01	Bromodichloromethane	10/22/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1935709

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-4-101719	1935709-01	Bromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-101719	1935709-01	Chlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	Benzene	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-101719	1935709-01	Chloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-101719	1935709-01	Tetrahydrofuran	10/22/2019	20	Y	n	u		20	5.2	ug/L
TB-4-101719	1935709-01	p- & m-Xylenes	10/22/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-4-101719	1935709-01	o-Xylene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-101719	1935709-01	Chloroacetonitrile	10/22/2019	0	Y	y	v				ug/L
TB-4-101719	1935709-01	1-Chlorobutane	10/22/2019	0	Y	y	v				ug/L
TB-4-101719	1935709-01	1,1-Dichloropropanone	10/22/2019	0	Y	y	v				ug/L
TB-4-101719	1935709-01	Methyl acrylate	10/22/2019	0	Y	y	v				ug/L
TB-4-101719	1935709-01	Nitrobenzene	10/22/2019	0	Y	y	v				ug/L
TB-4-101719	1935709-01	2-Nitropropane	10/22/2019	0	Y	y	v				ug/L
TB-4-101719	1935709-01	Bromobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-101719	1935709-01	Dichlorodifluoromethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-101719	1935709-01	cis-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	1,1-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-4-101719	1935709-01	2,2-Dichloropropane	10/22/2019	0.5	Y	n	u	UJ	0.50	0.18	ug/L
TB-4-101719	1935709-01	1,3-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-101719	1935709-01	1,2-Dichloropropane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-101719	1935709-01	trans-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-4-101719	1935709-01	cis-1,2-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-101719	1935709-01	1,1-Dichloroethene	10/22/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-4-101719	1935709-01	Carbon tetrachloride	10/22/2019	0.5	Y	n	u	UJ	0.50	0.17	ug/L
TB-4-101719	1935709-01	1,1-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935709

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-4-101719	1935709-01	trans-1,3-Dichloropropene	10/22/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-4-101719	1935709-01	1,4-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-4-101719	1935709-01	1,3-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-4-101719	1935709-01	1,2-Dichlorobenzene	10/22/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-4-101719	1935709-01	Dibromomethane	10/22/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-4-101719	1935709-01	1,2-Dibromoethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-101719	1935709-01	Dibromochloromethane	10/22/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-4-101719	1935709-01	2-Chlorotoluene	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	Chloromethane	10/22/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-4-101719	1935709-01	Chloroform	10/22/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-4-101719	1935709-01	1,2-Dichloroethane	10/22/2019	0.5	Y	n	u		0.50	0.17	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935863

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-5	1935863-01	Water	10/18/19
MW-23-4	1935863-02	Water	10/18/19
MW-23-3	1935863-03	Water	10/18/19
MW-23-2**	1935863-04**	Water	10/18/19
MW-23-1	1935863-05	Water	10/18/19
TB-5-101819	1935863-06	Water	10/18/19
MW-26-2	1935863-07	Water	10/18/19
MW-26-1	1935863-08	Water	10/18/19
EB-5-101819	1935863-09	Water	10/18/19
MW-23-2MS	1935863-04MS	Water	10/18/19
MW-23-2MSD	1935863-04MSD	Water	10/18/19

**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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/23/19 (23OCT02)	Bromomethane	35.3	MW-23-5 MW-23-4 MW-23-3 MW-23-1 TB-5-101819 MW-26-2 MW-26-1 EB-5-101819	UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
10/23/19 (23OCT03)	Methyl iodide	55.7	MW-23-5 MW-23-4 MW-23-3 MW-23-1 TB-5-101819 MW-26-2 MW-26-1 EB-5-101819	UJ (all non-detects)	P
10/24/19 (24OCT02)	Bromomethane	53.9	MW-23-2**	UJ (all non-detects)	P
10/24/19 (24OCT03)	Methyl iodide	58.7	MW-23-2**	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-5-101819 was identified as a trip blank. No contaminants were found.

Sample EB-5-101819 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1935863

Sample	Compound	Flag	A or P	Reason
MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 TB-5-101819 MW-26-2 MW-26-1 EB-5-101819	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1935863

No Sample Data Qualified in this SDG

LDC #: 46532E1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935863

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 11/9/19

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	$RSD \leq 20\%$ $CV \leq 30\%$
IV.	Continuing calibration	SW	$CV \leq 30\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=6. EB=9
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	A	
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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-23-5	1935863-01	Water	10/18/19
2	MW-23-4	1935863-02	Water	10/18/19
3	MW-23-3	1935863-03	Water	10/18/19
4	Z-MW-23-2**	1935863-04**	Water	10/18/19
5	MW-23-1	1935863-05	Water	10/18/19
6	TB-5-101819	1935863-06	Water	10/18/19
7	MW-26-2	1935863-07	Water	10/18/19
8	MW-26-1	1935863-08	Water	10/18/19
9	EB-5-101819	1935863-09	Water	10/18/19
10	MW-23-2MS	1935863-04MS	Water	10/18/19
11	MW-23-2MSD	1935863-04MSD	Water	10/18/19
12				
13				
14				

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

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

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	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 #: 46532219

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

#	Date	Standard ID	Compound	Finding %D (Limit: \leq 30.0%)	Associated Samples	Qualifications
	10/23/19 ✓	23OCT02 23OCT03	B Methyl iodide	35.3 55.7	1-35-9.MB (NB)	✓/W/P L
	10/24/19 ✓	24OCT02 24OCT03	B Methyl iodide	53.9 58.7	4.10-11.MB (NB)	✓/W/P L

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)	10/4/19	K (1st internal standard)	0.7215136	0.7215136	0.6924436	0.6924436	6.702173	6.702
			S (2nd internal standard)	0.3384052	0.3384051	0.3454039	0.345039	4.045952	4.046
			EE (3rd internal standard)	2.023053	2.023053	2.055444	2.055444	10.94163	10.942
			(4th internal standard)						
2			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						
3			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						
4			QQQ (1st internal standard)						
			S (2nd internal standard)						
			AA (3rd internal standard)						
			HHH (4th internal standard)						

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

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
 $RRF = (A_x)(C_{is}) / (A_{is})(C_x)$

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	24OCT02	10/24/19	K (1st internal standard)	0.6924436	0.7661005	0.7661005	10.6	10.6
			S (2nd internal standard)	0.3454039	0.3369464	0.3369464	2.4	2.4
			EE (3rd internal standard)	2.055444	1.776198	1.776198	13.6	13.6
			HHH (4th internal standard)					
2			K (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
3			QQQ (1st internal standard)					
			S (2nd internal standard)					
			EE (3rd internal standard)					
			HHH (4th internal standard)					
4			QQQ (1st internal standard)					
			S (2nd internal standard)					
			AA (3rd internal standard)					
			HHH (4th internal standard)					

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

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	10.23	102	102	
Bromofluorobenzene		10.53	105	105	
1,2-Dichlorobenzene-d4 1,2-DCA		10.53	108	108	
Dibromofluoromethane		10.78			

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: 10/11

Compound	Spike Added (µg)		Sample Concentration (µg)	Spiked Sample Concentration (µg)		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	26.650	26.450	107	107	106	106	0.828	0.828
Trichloroethene	↓	↓	1.35	26.030	26.000	98.7	98.7	98.6	98.6	0.115	0.115
Benzene	↓	↓	ND	25.280	24.940	101	101	99.8	99.8	1.35	1.35
Toluene	↓	↓	↓	23.020	22.820	92.1	92.1	91.3	91.3	0.873	0.873
Chlorobenzene	↓	↓	↓	23.890	23.170	95.6	95.6	92.7	92.7	3.06	3.06

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: B060236-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	26.000	NA	104	104				
Trichloroethene	↓	↓	23.790	↓	95.2	95.2				
Benzene	↓	↓	24.120	↓	96.5	96.5				
Toluene	↓	↓	21.480	↓	86.7	86.7				
Chlorobenzene	↓	↓	23.720	↓	94.9	94.9				

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

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

Y M N/A
Y N N/A

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

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

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

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

Example:

Sample I.D. 4, S:

$$\begin{aligned} \text{Conc.} &= \frac{(17847)(10.0)(1)}{(387638)(0.3454039)()} \\ &= 1.35 \mu\text{C} \end{aligned}$$

#	Sample ID	Compound	Reported Concentration (<u>1.4</u>)	Calculated Concentration ()	Qualification
	<u>4</u>	<u>S</u>	<u>1.4</u>		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935863

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-5	1935863-01	Water	10/18/19
MW-23-4	1935863-02	Water	10/18/19
MW-23-3	1935863-03	Water	10/18/19
MW-23-2**	1935863-04**	Water	10/18/19
MW-23-1	1935863-05	Water	10/18/19
MW-26-2	1935863-07	Water	10/18/19
MW-26-1	1935863-08	Water	10/18/19
EB-5-101819	1935863-09	Water	10/18/19
MW-23-2MS	1935863-04MS	Water	10/18/19
MW-23-2MSD	1935863-04MSD	Water	10/18/19
MW-23-2DUP	1935863-04DUP	Water	10/18/19

**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.

VI. Field Blanks

Sample EB-5-101819 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 analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1935863

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1935863

No Sample Data Qualified in this SDG

LDC #: 46532E4a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/5/19

SDG #: 1935863

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

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

METHOD: Chromium (EPA Method 200.8)

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

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

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-23-5	1935863-01	Water	10/18/19
2	MW-23-4	1935863-02	Water	10/18/19
3	MW-23-3	1935863-03	Water	10/18/19
4	MW-23-2**	1935863-04**	Water	10/18/19
5	MW-23-1	1935863-05	Water	10/18/19
6	MW-26-2	1935863-07	Water	10/18/19
7	MW-26-1	1935863-08	Water	10/18/19
8	EB-5-101819	1935863-09	Water	10/18/19
9	MW-23-2MS	1935863-04MS	Water	10/18/19
10	MW-23-2MSD	1935863-04MSD	Water	10/18/19
11	MW-23-2DUP	1935863-04DUP	Water	10/18/19
12				
13				

Notes: _____

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

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

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) 10/23 @ 08:13	Cr	52.883	50.000	106	106	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV4	ICP/MS (Continuing calibration) 10/23 @ 14:54	Cr	38.448	40.000	96.1	96.1	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	114.904	114.925	± 0.1 AMU	NA	Y
	%RSD	24.0	71065.1	≤ 5% RSD	1.6	Y

Comments:

LDC #: 46532E4a

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 10/23 @ 17:54	CR	39.844	40.000	99.6	99.6	Y
9	Matrix spike 10/23 @ 14:47	CR	(SSR-SR) 38.531	40.000	96.3	96.3	Y
11	Duplicate 10/23 @ 14:43	CR	0.6130	0.60100	1.98	1.98	Y
4	Post digestion spike 10/23 @ 14:52	CR	38.480	40.000	96.2	96.2	Y
4	ICP serial dilution 10/23 @ 14:45	CR	ND	0.601	N.C	N.C	Y

Comments: _____

LDC #: 46532 E4a

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: ATV
2nd reviewer: →

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

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

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

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

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$ Recalculation: #4
 $0.601 = 0.60$

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

#	Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
	4	Cr (10/23 @ 14:40)	0.60	0.60	Y

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 6, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935863

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-5	1935863-01	Water	10/18/19
MW-23-4	1935863-02	Water	10/18/19
MW-23-3	1935863-03	Water	10/18/19
MW-23-2**	1935863-04**	Water	10/18/19
MW-23-1	1935863-05	Water	10/18/19
MW-26-2	1935863-07	Water	10/18/19
MW-26-1	1935863-08	Water	10/18/19
EB-5-101819	1935863-09	Water	10/18/19
MW-23-2MS	1935863-04MS	Water	10/18/19
MW-23-2MSD	1935863-04MSD	Water	10/18/19
MW-23-2DUP	1935863-04DUP	Water	10/18/19

**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) Method 218.6
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	Hexavalent chromium	0.000037 mg/L	MW-23-5 MW-23-4 MW-23-3 MW-23-1
ICB/CCB	Hexavalent chromium	0.000044 mg/L	MW-26-2 MW-26-1 EB-5-101819

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-23-5	Hexavalent chromium	0.00010 mg/L	0.00010U mg/L
MW-26-1	Hexavalent chromium	0.000048 mg/L	0.000048U mg/L
EB-5-101819	Hexavalent chromium	0.000040 mg/L	0.000040U mg/L

V. Field Blanks

Sample EB-5-101819 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-5-101819	Hexavalent chromium	0.000040 mg/L

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to 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.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1935863

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1935863

Sample	Analyte	Modified Final Concentration	A or P
MW-23-5	Hexavalent chromium	0.00010U mg/L	A
MW-26-1	Hexavalent chromium	0.000048U mg/L	A
EB-5-101819	Hexavalent chromium	0.000040U mg/L	A

LDC #: 46532E6

VALIDATION COMPLETENESS WORKSHEET

Date: 12/5/19

SDG #: 1935863

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATV

2nd Reviewer: CF

METHOD: (Analyte) Hexavalent Chromium (EPA Method 218.6), 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	SW	EB=8
VI.	Matrix Spike/Matrix Spike Duplicates	A	(9,10)
VII.	Duplicate sample analysis	A	11
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-23-5	1935863-01	Water	10/18/19
2	MW-23-4	1935863-02	Water	10/18/19
3	MW-23-3	1935863-03	Water	10/18/19
4	MW-23-2**	1935863-04**	Water	10/18/19
5	MW-23-1	1935863-05	Water	10/18/19
6	MW-26-2	1935863-07	Water	10/18/19
7	MW-26-1	1935863-08	Water	10/18/19
8	EB-5-101819	1935863-09	Water	10/18/19
9	MW-23-2MS	1935863-04MS	Water	10/18/19
10	MW-23-2MSD	1935863-04MSD	Water	10/18/19
11	MW-23-2DUP	1935863-04DUP	Water	10/18/19
12				
13				
14				
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?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-8	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <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
OC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
9,10,11	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 1,2,3,5

Analyte	Blank ID	Blank ID	Blank Action Limit													
	PB	ICB/CCB (mg/L)		1												
Cr6+		0.000037	0.000185	0.00010												

Conc. units: mg/L


Associated Samples: 6,7,8

Analyte	Blank ID	Blank ID	Blank Action Limit													
	PB	ICB/CCB (mg/L)		7	8											
Cr6+		0.000044	0.00022	0.000048	0.000040											

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 #: 46532E6
SDG #: 1935709

VALIDATION FINDINGS WORKSHEET
Field Blanks

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

METHOD: Inorganics

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

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

Analyte	Concentration Units (mg/L)
Cr6+	0.000040

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

Analyte	Concentration Units ()

LDC #: 46532EG

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: 11/5/19

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	0.0026	0.9984	0.9982	Y
		s2	4	0.0039			
		s3	6	0.0066			
		s4	10	0.011			
		s5	20	0.0218			
CCV _I (11/8 e 02:34) Calibration verification	ClO ₄ ⁻	FOUND 12.000	TRUE 10.000		120	114	Y
CCV _D (10/20 e 12:38) Calibration verification	Cr6+	25.784	25.000		103	103	Y
CCV _E (10/20 e 14:27) Calibration verification	Cr6+	25.966	25.000		104	104	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 11/18 e 00:47	ClO4 ⁻	10.000 mg/L	10.000 mg/L	100	96	Y
9	Matrix spike sample 10/20 e 14:08	Cr6+	(SSR-SR) 0.021536 mg/L	0.020202 mg/L	107	108	Y
11	Duplicate sample 10/20 e 13:58	Cr6+	0.00083557 mg/L	0.00086500 mg/L	3.46	3.77	Y

Comments: _____

NASA JPL, 4Q1019 - LDC#46532

SDG: 1935863

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-101819	1935863-09	Total Recoverable Chromium	10/23/2019	3		n	u		3.0	0.50	ug/L
MW-23-1	1935863-05	Total Recoverable Chromium	10/23/2019	0.59		y	v j		3.0	0.50	ug/L
MW-23-2	1935863-04	Total Recoverable Chromium	10/23/2019	0.6		y	v j		3.0	0.50	ug/L
MW-23-3	1935863-03	Total Recoverable Chromium	10/23/2019	2.6		y	v j		3.0	0.50	ug/L
MW-23-4	1935863-02	Total Recoverable Chromium	10/23/2019	2.4		y	v j		3.0	0.50	ug/L
MW-23-5	1935863-01	Total Recoverable Chromium	10/23/2019	3		n	u		3.0	0.50	ug/L
MW-26-1	1935863-08	Total Recoverable Chromium	10/23/2019	3		n	u		3.0	0.50	ug/L
MW-26-2	1935863-07	Total Recoverable Chromium	10/23/2019	1.1		y	v j		3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-101819	1935863-09	Hexavalent Chromium	10/19/2019	#####		y	v j	U	0.0002	0.0000	mg/L
MW-23-1	1935863-05	Hexavalent Chromium	10/19/2019	#####		y	v		0.0002	0.0000	mg/L
MW-23-2	1935863-04	Hexavalent Chromium	10/20/2019	#####		y	v		0.0002	0.0000	mg/L
MW-23-3	1935863-03	Hexavalent Chromium	10/19/2019	0.0026		y	v		0.0002	0.0000	mg/L
MW-23-4	1935863-02	Hexavalent Chromium	10/19/2019	0.0029		y	v		0.0002	0.0000	mg/L
MW-23-5	1935863-01	Hexavalent Chromium	10/19/2019	0.0001		y	v j	U	0.0002	0.0000	mg/L
MW-26-1	1935863-08	Hexavalent Chromium	10/19/2019	#####		y	v j	U	0.0002	0.0000	mg/L
MW-26-2	1935863-07	Hexavalent Chromium	10/19/2019	#####		y	v		0.0002	0.0000	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-5-101819	1935863-09	Perchlorate	11/8/2019	4		n	u		4.0	0.76	ug/L
MW-23-1	1935863-05	Perchlorate	11/8/2019	1.3		y	v j		4.0	0.76	ug/L
MW-23-2	1935863-04	Perchlorate	11/8/2019	3.9		y	v j		4.0	0.76	ug/L

SDG: 1935863

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-23-3	1935863-03	Perchlorate	11/8/2019	2.6		y	v j		4.0	0.76	ug/L
MW-23-4	1935863-02	Perchlorate	11/8/2019	1.2		y	v j		4.0	0.76	ug/L
MW-23-5	1935863-01	Perchlorate	11/8/2019	4		n	u		4.0	0.76	ug/L
MW-26-1	1935863-08	Perchlorate	11/8/2019	1.8		y	v j		4.0	0.76	ug/L
MW-26-2	1935863-07	Perchlorate	11/8/2019	3		y	v j		4.0	0.76	ug/L
Analytical Method											
EPA-524.2											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-101819	1935863-09	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
EB-5-101819	1935863-09	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L
EB-5-101819	1935863-09	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
EB-5-101819	1935863-09	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
EB-5-101819	1935863-09	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
EB-5-101819	1935863-09	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
EB-5-101819	1935863-09	Chloroform	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
EB-5-101819	1935863-09	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
EB-5-101819	1935863-09	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
EB-5-101819	1935863-09	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L

SDG: 1935863

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-5-101819	1935863-09	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
EB-5-101819	1935863-09	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
EB-5-101819	1935863-09	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
EB-5-101819	1935863-09	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
EB-5-101819	1935863-09	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
EB-5-101819	1935863-09	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
EB-5-101819	1935863-09	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
EB-5-101819	1935863-09	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
EB-5-101819	1935863-09	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	Trichloroethene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
EB-5-101819	1935863-09	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
EB-5-101819	1935863-09	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
EB-5-101819	1935863-09	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
EB-5-101819	1935863-09	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
EB-5-101819	1935863-09	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
EB-5-101819	1935863-09	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	Nitrobenzene	10/23/2019	0		y	v				ug/L
EB-5-101819	1935863-09	Methyl acrylate	10/23/2019	0		y	v				ug/L

SDG: 1935863

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-5-101819	1935863-09	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
EB-5-101819	1935863-09	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
EB-5-101819	1935863-09	1-Chlorobutane	10/23/2019	0		y	v				ug/L
EB-5-101819	1935863-09	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
EB-5-101819	1935863-09	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L
EB-5-101819	1935863-09	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
EB-5-101819	1935863-09	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
EB-5-101819	1935863-09	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
EB-5-101819	1935863-09	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
EB-5-101819	1935863-09	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
EB-5-101819	1935863-09	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
EB-5-101819	1935863-09	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
EB-5-101819	1935863-09	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
EB-5-101819	1935863-09	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
EB-5-101819	1935863-09	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
EB-5-101819	1935863-09	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	Tetrachloroethene	10/23/2019	0.5		n	u		0.50	0.23	ug/L
EB-5-101819	1935863-09	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
EB-5-101819	1935863-09	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
EB-5-101819	1935863-09	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L
EB-5-101819	1935863-09	Acetone	10/23/2019	10		n	u		10	6.6	ug/L

SDG: 1935863

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-5-101819	1935863-09	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
EB-5-101819	1935863-09	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
EB-5-101819	1935863-09	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
EB-5-101819	1935863-09	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
EB-5-101819	1935863-09	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
EB-5-101819	1935863-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
EB-5-101819	1935863-09	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
EB-5-101819	1935863-09	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
EB-5-101819	1935863-09	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
EB-5-101819	1935863-09	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
EB-5-101819	1935863-09	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
EB-5-101819	1935863-09	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
EB-5-101819	1935863-09	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
EB-5-101819	1935863-09	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
EB-5-101819	1935863-09	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
EB-5-101819	1935863-09	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
EB-5-101819	1935863-09	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
EB-5-101819	1935863-09	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
EB-5-101819	1935863-09	2-Nitropropane	10/23/2019	0		y	v				ug/L
EB-5-101819	1935863-09	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-23-1	1935863-05	Chloroform	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-1	1935863-05	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-1	1935863-05	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L

SDG: 1935863

Analytical 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	1935863-05	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
MW-23-1	1935863-05	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-1	1935863-05	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-1	1935863-05	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-1	1935863-05	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-1	1935863-05	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-1	1935863-05	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-1	1935863-05	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-1	1935863-05	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-1	1935863-05	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-1	1935863-05	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-1	1935863-05	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-1	1935863-05	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-1	1935863-05	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-1	1935863-05	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-1	1935863-05	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L

SDG: 1935863

Analytical 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	1935863-05	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-1	1935863-05	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
MW-23-1	1935863-05	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-1	1935863-05	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-1	1935863-05	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-1	1935863-05	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-23-1	1935863-05	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-1	1935863-05	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
MW-23-1	1935863-05	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
MW-23-1	1935863-05	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
MW-23-1	1935863-05	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-1	1935863-05	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-1	1935863-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-1	1935863-05	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-1	1935863-05	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
MW-23-1	1935863-05	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-1	1935863-05	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
MW-23-1	1935863-05	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-1	1935863-05	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-1	1935863-05	Tetrachloroethene	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-1	1935863-05	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L

SDG: 1935863

Analytical 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	1935863-05	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-1	1935863-05	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-1	1935863-05	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-1	1935863-05	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-1	1935863-05	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-1	1935863-05	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-1	1935863-05	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
MW-23-1	1935863-05	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
MW-23-1	1935863-05	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
MW-23-1	1935863-05	Trichloroethene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-1	1935863-05	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-23-1	1935863-05	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
MW-23-1	1935863-05	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
MW-23-1	1935863-05	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
MW-23-1	1935863-05	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-23-1	1935863-05	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
MW-23-1	1935863-05	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
MW-23-1	1935863-05	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L
MW-23-1	1935863-05	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
MW-23-1	1935863-05	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-1	1935863-05	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-1	1935863-05	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
MW-23-1	1935863-05	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
MW-23-1	1935863-05	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
MW-23-1	1935863-05	Chloroacetonitrile	10/23/2019	0		y	v				ug/L

SDG: 1935863

Analytical 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	1935863-05	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
MW-23-1	1935863-05	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-1	1935863-05	Nitrobenzene	10/23/2019	0		y	v				ug/L
MW-23-1	1935863-05	Methyl acrylate	10/23/2019	0		y	v				ug/L
MW-23-1	1935863-05	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
MW-23-1	1935863-05	1-Chlorobutane	10/23/2019	0		y	v				ug/L
MW-23-1	1935863-05	2-Nitropropane	10/23/2019	0		y	v				ug/L
MW-23-2	1935863-04	1,2-Dichlorobenzene	10/24/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-2	1935863-04	2-Chlorotoluene	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-2	1935863-04	4-Chlorotoluene	10/24/2019	0.5		n	u		0.50	0.093	ug/L
MW-23-2	1935863-04	Dibromochloromethane	10/24/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-2	1935863-04	1,2-Dibromo-3-chloropropane	10/24/2019	1		n	u		1.0	0.89	ug/L
MW-23-2	1935863-04	1,3-Dichlorobenzene	10/24/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-2	1935863-04	Dibromomethane	10/24/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-2	1935863-04	1,4-Dichlorobenzene	10/24/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-2	1935863-04	Bromobenzene	10/24/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-2	1935863-04	Chloromethane	10/24/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-2	1935863-04	1,2-Dibromoethane	10/24/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-2	1935863-04	Chloroform	10/24/2019	0.46		y	v j		0.50	0.14	ug/L
MW-23-2	1935863-04	Chloroethane	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	Chlorobenzene	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-2	1935863-04	Carbon tetrachloride	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	tert-Butylbenzene	10/24/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-2	1935863-04	sec-Butylbenzene	10/24/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-2	1935863-04	n-Butylbenzene	10/24/2019	0.5		n	u		0.50	0.15	ug/L

SDG: 1935863

Analytical 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	1935863-04	Bromomethane	10/24/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-23-2	1935863-04	Bromoform	10/24/2019	0.5		n	u		0.50	0.46	ug/L
MW-23-2	1935863-04	Bromochloromethane	10/24/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-2	1935863-04	Benzene	10/24/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-2	1935863-04	Isopropylbenzene	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-2	1935863-04	trans-1,4-Dichloro-2-butene	10/24/2019	5		n	u		5.0	1.8	ug/L
MW-23-2	1935863-04	Bromodichloromethane	10/24/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-2	1935863-04	Hexachlorobutadiene	10/24/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-2	1935863-04	Methyl ethyl ketone	10/24/2019	10		n	u		10	3.3	ug/L
MW-23-2	1935863-04	Methyl iodide	10/24/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-23-2	1935863-04	Methyl isobutyl ketone	10/24/2019	10		n	u		10	2.4	ug/L
MW-23-2	1935863-04	Pentachloroethane	10/24/2019	2		n	u		2.0	0.63	ug/L
MW-23-2	1935863-04	t-Butyl alcohol	10/24/2019	10		n	u		10	9.4	ug/L
MW-23-2	1935863-04	Tetrahydrofuran	10/24/2019	20		n	u		20	5.2	ug/L
MW-23-2	1935863-04	p- & m-Xylenes	10/24/2019	0.5		n	u		0.50	0.34	ug/L
MW-23-2	1935863-04	o-Xylene	10/24/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-2	1935863-04	Chloroacetonitrile	10/24/2019	0		y	v				ug/L
MW-23-2	1935863-04	1-Chlorobutane	10/24/2019	0		y	v				ug/L
MW-23-2	1935863-04	1,1-Dichloropropanone	10/24/2019	0		y	v				ug/L
MW-23-2	1935863-04	Methyl acrylate	10/24/2019	0		y	v				ug/L
MW-23-2	1935863-04	Nitrobenzene	10/24/2019	0		y	v				ug/L
MW-23-2	1935863-04	Methacrylonitrile	10/24/2019	10		n	u		10	2.3	ug/L
MW-23-2	1935863-04	1,3-Dichloropropane	10/24/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-2	1935863-04	1,1-Dichloroethane	10/24/2019	0.15		y	v j		0.50	0.15	ug/L
MW-23-2	1935863-04	p-Isopropyltoluene	10/24/2019	0.5		n	u		0.50	0.14	ug/L

SDG: 1935863

Analytical 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	1935863-04	1,2-Dichloroethane	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	1,1-Dichloroethene	10/24/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-2	1935863-04	cis-1,2-Dichloroethene	10/24/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-2	1935863-04	2-Nitropropane	10/24/2019	0		y	v				ug/L
MW-23-2	1935863-04	1,2-Dichloropropane	10/24/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-2	1935863-04	Dichlorodifluoromethane	10/24/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-2	1935863-04	2,2-Dichloropropane	10/24/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-2	1935863-04	1,1-Dichloropropene	10/24/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-2	1935863-04	cis-1,3-Dichloropropene	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-2	1935863-04	trans-1,3-Dichloropropene	10/24/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-2	1935863-04	Ethylbenzene	10/24/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-2	1935863-04	Methyl methacrylate	10/24/2019	5		n	u		5.0	1.2	ug/L
MW-23-2	1935863-04	trans-1,2-Dichloroethene	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	Propionitrile	10/24/2019	20		n	u		20	6.2	ug/L
MW-23-2	1935863-04	Trichloroethene	10/24/2019	1.4		y	v		0.50	0.19	ug/L
MW-23-2	1935863-04	Naphthalene	10/24/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-2	1935863-04	n-Propylbenzene	10/24/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-2	1935863-04	Trichlorofluoromethane	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-2	1935863-04	Styrene	10/24/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-2	1935863-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-2	1935863-04	1,1,2,2-Tetrachloroethane	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	1,2,4-Trimethylbenzene	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	Tetrachloroethene	10/24/2019	0.25		y	v j		0.50	0.23	ug/L
MW-23-2	1935863-04	Toluene	10/24/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-2	1935863-04	1,2,3-Trichlorobenzene	10/24/2019	0.5		n	u		0.50	0.19	ug/L

SDG: 1935863

Analytical 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	1935863-04	1,2,4-Trichlorobenzene	10/24/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-2	1935863-04	1,1,1-Trichloroethane	10/24/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-2	1935863-04	1,1,2-Trichloroethane	10/24/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-2	1935863-04	1,1,1,2-Tetrachloroethane	10/24/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-2	1935863-04	Carbon disulfide	10/24/2019	1		n	u		1.0	0.48	ug/L
MW-23-2	1935863-04	Methylene chloride	10/24/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-2	1935863-04	2-Hexanone	10/24/2019	10		n	u		10	5.0	ug/L
MW-23-2	1935863-04	Hexachloroethane	10/24/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-2	1935863-04	Ethyl t-butyl ether	10/24/2019	0.5		n	u		0.50	0.32	ug/L
MW-23-2	1935863-04	Ethyl methacrylate	10/24/2019	4		n	u		4.0	1.3	ug/L
MW-23-2	1935863-04	1,2,3-Trichloropropane	10/24/2019	1		n	u		1.0	0.78	ug/L
MW-23-2	1935863-04	Diethyl ether	10/24/2019	2		n	u		2.0	0.33	ug/L
MW-23-2	1935863-04	t-Amyl Methyl ether	10/24/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-2	1935863-04	Allyl chloride	10/24/2019	5		n	u		5.0	0.47	ug/L
MW-23-2	1935863-04	Acrylonitrile	10/24/2019	5		n	u		5.0	1.5	ug/L
MW-23-2	1935863-04	Acetone	10/24/2019	10		n	u		10	6.6	ug/L
MW-23-2	1935863-04	Vinyl chloride	10/24/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-2	1935863-04	1,3,5-Trimethylbenzene	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-2	1935863-04	Methyl t-butyl ether	10/24/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-3	1935863-03	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-3	1935863-03	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-3	1935863-03	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-3	1935863-03	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L

SDG: 1935863

Analytical 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	1935863-03	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-3	1935863-03	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-3	1935863-03	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-3	1935863-03	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-3	1935863-03	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
MW-23-3	1935863-03	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-3	1935863-03	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
MW-23-3	1935863-03	Nitrobenzene	10/23/2019	0		y	v				ug/L
MW-23-3	1935863-03	Methyl acrylate	10/23/2019	0		y	v				ug/L
MW-23-3	1935863-03	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
MW-23-3	1935863-03	1-Chlorobutane	10/23/2019	0		y	v				ug/L
MW-23-3	1935863-03	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-3	1935863-03	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L
MW-23-3	1935863-03	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
MW-23-3	1935863-03	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
MW-23-3	1935863-03	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
MW-23-3	1935863-03	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
MW-23-3	1935863-03	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
MW-23-3	1935863-03	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
MW-23-3	1935863-03	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-3	1935863-03	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L

SDG: 1935863

Analytical 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	1935863-03	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-3	1935863-03	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
MW-23-3	1935863-03	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
MW-23-3	1935863-03	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
MW-23-3	1935863-03	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
MW-23-3	1935863-03	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
MW-23-3	1935863-03	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-23-3	1935863-03	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-3	1935863-03	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-3	1935863-03	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-23-3	1935863-03	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-3	1935863-03	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-3	1935863-03	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
MW-23-3	1935863-03	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-3	1935863-03	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
MW-23-3	1935863-03	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-3	1935863-03	Chloroform	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-3	1935863-03	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-3	1935863-03	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L

SDG: 1935863

Analytical 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	1935863-03	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-23-3	1935863-03	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
MW-23-3	1935863-03	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-3	1935863-03	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-3	1935863-03	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-3	1935863-03	2-Nitropropane	10/23/2019	0		y	v				ug/L
MW-23-3	1935863-03	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-3	1935863-03	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-3	1935863-03	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-3	1935863-03	Trichloroethene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-3	1935863-03	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-3	1935863-03	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
MW-23-3	1935863-03	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-3	1935863-03	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	Tetrachloroethene	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-3	1935863-03	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-3	1935863-03	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
MW-23-3	1935863-03	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
MW-23-3	1935863-03	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L

SDG: 1935863

Analytical 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	1935863-03	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-3	1935863-03	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-3	1935863-03	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-3	1935863-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-4	1935863-02	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-4	1935863-02	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
MW-23-4	1935863-02	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
MW-23-4	1935863-02	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-23-4	1935863-02	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-4	1935863-02	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
MW-23-4	1935863-02	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
MW-23-4	1935863-02	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
MW-23-4	1935863-02	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-4	1935863-02	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-4	1935863-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-4	1935863-02	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
MW-23-4	1935863-02	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Trichloroethene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-4	1935863-02	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-4	1935863-02	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-4	1935863-02	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-4	1935863-02	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	Tetrachloroethene	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-4	1935863-02	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
MW-23-4	1935863-02	2-Nitropropane	10/23/2019	0		y	v				ug/L
MW-23-4	1935863-02	Nitrobenzene	10/23/2019	0		y	v				ug/L
MW-23-4	1935863-02	Methyl acrylate	10/23/2019	0		y	v				ug/L
MW-23-4	1935863-02	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
MW-23-4	1935863-02	1-Chlorobutane	10/23/2019	0		y	v				ug/L
MW-23-4	1935863-02	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
MW-23-4	1935863-02	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-4	1935863-02	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
MW-23-4	1935863-02	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
MW-23-4	1935863-02	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
MW-23-4	1935863-02	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
MW-23-4	1935863-02	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
MW-23-4	1935863-02	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
MW-23-4	1935863-02	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-23-4	1935863-02	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
MW-23-4	1935863-02	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
MW-23-4	1935863-02	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
MW-23-4	1935863-02	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-4	1935863-02	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
MW-23-4	1935863-02	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-4	1935863-02	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-4	1935863-02	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-4	1935863-02	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-4	1935863-02	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
MW-23-4	1935863-02	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-4	1935863-02	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
MW-23-4	1935863-02	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-4	1935863-02	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-4	1935863-02	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-4	1935863-02	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-23-4	1935863-02	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
MW-23-4	1935863-02	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-4	1935863-02	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-4	1935863-02	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	Chloroform	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-4	1935863-02	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-4	1935863-02	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-4	1935863-02	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-4	1935863-02	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-4	1935863-02	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-4	1935863-02	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-4	1935863-02	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-4	1935863-02	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-4	1935863-02	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-4	1935863-02	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-4	1935863-02	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-4	1935863-02	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-4	1935863-02	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-4	1935863-02	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-4	1935863-02	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
MW-23-5	1935863-01	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-5	1935863-01	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-5	1935863-01	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-5	1935863-01	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
MW-23-5	1935863-01	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-5	1935863-01	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-5	1935863-01	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-5	1935863-01	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-5	1935863-01	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-5	1935863-01	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-5	1935863-01	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-5	1935863-01	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-23-5	1935863-01	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-23-5	1935863-01	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
MW-23-5	1935863-01	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-23-5	1935863-01	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-5	1935863-01	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-23-5	1935863-01	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-5	1935863-01	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-23-5	1935863-01	Chloroform	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-5	1935863-01	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
MW-23-5	1935863-01	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-5	1935863-01	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
MW-23-5	1935863-01	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-23-5	1935863-01	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-5	1935863-01	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-5	1935863-01	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
MW-23-5	1935863-01	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-23-5	1935863-01	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
MW-23-5	1935863-01	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-5	1935863-01	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
MW-23-5	1935863-01	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
MW-23-5	1935863-01	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
MW-23-5	1935863-01	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-23-5	1935863-01	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-5	1935863-01	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
MW-23-5	1935863-01	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
MW-23-5	1935863-01	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-23-5	1935863-01	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-5	1935863-01	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-5	1935863-01	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
MW-23-5	1935863-01	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-23-5	1935863-01	Trichloroethene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-5	1935863-01	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-5	1935863-01	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
MW-23-5	1935863-01	1-Chlorobutane	10/23/2019	0		y	v				ug/L
MW-23-5	1935863-01	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-23-5	1935863-01	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	Tetrachloroethene	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-23-5	1935863-01	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-23-5	1935863-01	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-23-5	1935863-01	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-23-5	1935863-01	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-23-5	1935863-01	2-Nitropropane	10/23/2019	0		y	v				ug/L
MW-23-5	1935863-01	Nitrobenzene	10/23/2019	0		y	v				ug/L
MW-23-5	1935863-01	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
MW-23-5	1935863-01	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
MW-23-5	1935863-01	Styrene	10/23/2019	0.27		y	v j		0.50	0.12	ug/L
MW-23-5	1935863-01	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
MW-23-5	1935863-01	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-23-5	1935863-01	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
MW-23-5	1935863-01	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L

SDG: 1935863

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-5	1935863-01	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
MW-23-5	1935863-01	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
MW-23-5	1935863-01	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
MW-23-5	1935863-01	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
MW-23-5	1935863-01	Methyl acrylate	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-1	1935863-08	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-1	1935863-08	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-26-1	1935863-08	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-26-1	1935863-08	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-26-1	1935863-08	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-26-1	1935863-08	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-1	1935863-08	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-26-1	1935863-08	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-1	1935863-08	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L

SDG: 1935863

Analytical 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	1935863-08	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-26-1	1935863-08	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-26-1	1935863-08	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-26-1	1935863-08	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-26-1	1935863-08	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
MW-26-1	1935863-08	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-26-1	1935863-08	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-1	1935863-08	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-26-1	1935863-08	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	Tetrachloroethene	10/23/2019	1.6		y	v		0.50	0.23	ug/L
MW-26-1	1935863-08	Chloroform	10/23/2019	0.77		y	v		0.50	0.14	ug/L
MW-26-1	1935863-08	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-26-1	1935863-08	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
MW-26-1	1935863-08	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-26-1	1935863-08	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
MW-26-1	1935863-08	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-26-1	1935863-08	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L
MW-26-1	1935863-08	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L
MW-26-1	1935863-08	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L

SDG: 1935863

Analytical 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	1935863-08	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-26-1	1935863-08	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
MW-26-1	1935863-08	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
MW-26-1	1935863-08	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
MW-26-1	1935863-08	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-26-1	1935863-08	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
MW-26-1	1935863-08	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
MW-26-1	1935863-08	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-1	1935863-08	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
MW-26-1	1935863-08	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
MW-26-1	1935863-08	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
MW-26-1	1935863-08	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-1	1935863-08	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	1-Chlorobutane	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	Methyl acrylate	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	Nitrobenzene	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	2-Nitropropane	10/23/2019	0		y	v				ug/L
MW-26-1	1935863-08	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
MW-26-1	1935863-08	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-26-1	1935863-08	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-1	1935863-08	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-1	1935863-08	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L

SDG: 1935863

Analytical 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	1935863-08	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-1	1935863-08	Trichloroethene	10/23/2019	0.47		y	v j		0.50	0.19	ug/L
MW-26-1	1935863-08	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
MW-26-1	1935863-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-1	1935863-08	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
MW-26-1	1935863-08	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-1	1935863-08	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-26-1	1935863-08	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
MW-26-1	1935863-08	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
MW-26-1	1935863-08	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
MW-26-1	1935863-08	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-1	1935863-08	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-26-1	1935863-08	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
MW-26-1	1935863-08	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-1	1935863-08	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
MW-26-1	1935863-08	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-2	1935863-07	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-26-2	1935863-07	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-26-2	1935863-07	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-26-2	1935863-07	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L

SDG: 1935863

Analytical 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	1935863-07	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-26-2	1935863-07	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-2	1935863-07	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-26-2	1935863-07	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-2	1935863-07	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-2	1935863-07	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-2	1935863-07	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
MW-26-2	1935863-07	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-26-2	1935863-07	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
MW-26-2	1935863-07	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
MW-26-2	1935863-07	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-26-2	1935863-07	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
MW-26-2	1935863-07	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
MW-26-2	1935863-07	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-2	1935863-07	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
MW-26-2	1935863-07	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L

SDG: 1935863

Analytical 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	1935863-07	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	Chloroform	10/23/2019	1.8		y	v		0.50	0.14	ug/L
MW-26-2	1935863-07	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-26-2	1935863-07	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
MW-26-2	1935863-07	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
MW-26-2	1935863-07	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
MW-26-2	1935863-07	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-2	1935863-07	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
MW-26-2	1935863-07	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
MW-26-2	1935863-07	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
MW-26-2	1935863-07	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
MW-26-2	1935863-07	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
MW-26-2	1935863-07	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
MW-26-2	1935863-07	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
MW-26-2	1935863-07	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
MW-26-2	1935863-07	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
MW-26-2	1935863-07	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
MW-26-2	1935863-07	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
MW-26-2	1935863-07	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
MW-26-2	1935863-07	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
MW-26-2	1935863-07	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
MW-26-2	1935863-07	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L

SDG: 1935863

Analytical 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	1935863-07	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
MW-26-2	1935863-07	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
MW-26-2	1935863-07	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
MW-26-2	1935863-07	1-Chlorobutane	10/23/2019	0		y	v				ug/L
MW-26-2	1935863-07	2-Nitropropane	10/23/2019	0		y	v				ug/L
MW-26-2	1935863-07	Nitrobenzene	10/23/2019	0		y	v				ug/L
MW-26-2	1935863-07	Methyl acrylate	10/23/2019	0		y	v				ug/L
MW-26-2	1935863-07	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
MW-26-2	1935863-07	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
MW-26-2	1935863-07	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-2	1935863-07	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	Tetrachloroethene	10/23/2019	2		y	v		0.50	0.23	ug/L
MW-26-2	1935863-07	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
MW-26-2	1935863-07	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-2	1935863-07	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
MW-26-2	1935863-07	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-2	1935863-07	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
MW-26-2	1935863-07	Trichloroethene	10/23/2019	0.2		y	v j		0.50	0.19	ug/L
MW-26-2	1935863-07	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
MW-26-2	1935863-07	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-2	1935863-07	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
MW-26-2	1935863-07	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
MW-26-2	1935863-07	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L

SDG: 1935863

Analytical 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	1935863-07	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
MW-26-2	1935863-07	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
MW-26-2	1935863-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
MW-26-2	1935863-07	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
TB-5-101819	1935863-06	Bromodichloromethane	10/23/2019	0.5		n	u		0.50	0.20	ug/L
TB-5-101819	1935863-06	Tetrahydrofuran	10/23/2019	20		n	u		20	5.2	ug/L
TB-5-101819	1935863-06	Nitrobenzene	10/23/2019	0		y	v				ug/L
TB-5-101819	1935863-06	Methyl acrylate	10/23/2019	0		y	v				ug/L
TB-5-101819	1935863-06	1,1-Dichloropropanone	10/23/2019	0		y	v				ug/L
TB-5-101819	1935863-06	1-Chlorobutane	10/23/2019	0		y	v				ug/L
TB-5-101819	1935863-06	Chloroacetonitrile	10/23/2019	0		y	v				ug/L
TB-5-101819	1935863-06	o-Xylene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
TB-5-101819	1935863-06	p- & m-Xylenes	10/23/2019	0.5		n	u		0.50	0.34	ug/L
TB-5-101819	1935863-06	2-Nitropropane	10/23/2019	0		y	v				ug/L
TB-5-101819	1935863-06	Methyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	Bromobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	Toluene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
TB-5-101819	1935863-06	Tetrachloroethene	10/23/2019	0.5		n	u		0.50	0.23	ug/L
TB-5-101819	1935863-06	1,1,2,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
TB-5-101819	1935863-06	Benzene	10/23/2019	0.5		n	u		0.50	0.11	ug/L
TB-5-101819	1935863-06	1,1,1,2-Tetrachloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
TB-5-101819	1935863-06	Styrene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
TB-5-101819	1935863-06	1,2,4-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	Naphthalene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
TB-5-101819	1935863-06	1,1,1-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L

SDG: 1935863

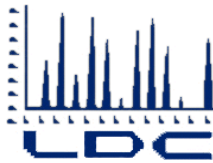
Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-101819	1935863-06	Methylene chloride	10/23/2019	0.5		n	u		0.50	0.21	ug/L
TB-5-101819	1935863-06	p-Isopropyltoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	Isopropylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	Hexachlorobutadiene	10/23/2019	0.5		n	u		0.50	0.20	ug/L
TB-5-101819	1935863-06	Ethylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	trans-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
TB-5-101819	1935863-06	cis-1,3-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	n-Propylbenzene	10/23/2019	0.5		n	u		0.50	0.12	ug/L
TB-5-101819	1935863-06	Vinyl chloride	10/23/2019	0.5		n	u		0.50	0.18	ug/L
TB-5-101819	1935863-06	Ethyl methacrylate	10/23/2019	4		n	u		4.0	1.3	ug/L
TB-5-101819	1935863-06	Diethyl ether	10/23/2019	2		n	u		2.0	0.33	ug/L
TB-5-101819	1935863-06	trans-1,4-Dichloro-2-butene	10/23/2019	5		n	u		5.0	1.8	ug/L
TB-5-101819	1935863-06	Carbon disulfide	10/23/2019	1		n	u		1.0	0.48	ug/L
TB-5-101819	1935863-06	t-Butyl alcohol	10/23/2019	10		n	u		10	9.4	ug/L
TB-5-101819	1935863-06	t-Amyl Methyl ether	10/23/2019	0.5		n	u		0.50	0.19	ug/L
TB-5-101819	1935863-06	Allyl chloride	10/23/2019	5		n	u		5.0	0.47	ug/L
TB-5-101819	1935863-06	1,2,3-Trichlorobenzene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
TB-5-101819	1935863-06	Acetone	10/23/2019	10		n	u		10	6.6	ug/L
TB-5-101819	1935863-06	1,3-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.13	ug/L
TB-5-101819	1935863-06	1,3,5-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	1,2,4-Trimethylbenzene	10/23/2019	0.5		n	u		0.50	0.17	ug/L
TB-5-101819	1935863-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/23/2019	0.5		n	u		0.50	0.19	ug/L
TB-5-101819	1935863-06	1,2,3-Trichloropropane	10/23/2019	1		n	u		1.0	0.78	ug/L
TB-5-101819	1935863-06	Trichlorofluoromethane	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	Trichloroethene	10/23/2019	0.5		n	u		0.50	0.19	ug/L

SDG: 1935863

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-5-101819	1935863-06	1,1,2-Trichloroethane	10/23/2019	0.5		n	u		0.50	0.21	ug/L
TB-5-101819	1935863-06	Acrylonitrile	10/23/2019	5		n	u		5.0	1.5	ug/L
TB-5-101819	1935863-06	Hexachloroethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
TB-5-101819	1935863-06	Chlorobenzene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	Carbon tetrachloride	10/23/2019	0.5		n	u		0.50	0.17	ug/L
TB-5-101819	1935863-06	tert-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.18	ug/L
TB-5-101819	1935863-06	sec-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.13	ug/L
TB-5-101819	1935863-06	n-Butylbenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	Bromomethane	10/23/2019	0.5		n	u	UJ	0.50	0.20	ug/L
TB-5-101819	1935863-06	Bromoform	10/23/2019	0.5		n	u		0.50	0.46	ug/L
TB-5-101819	1935863-06	1,1-Dichloropropene	10/23/2019	0.5		n	u		0.50	0.19	ug/L
TB-5-101819	1935863-06	Ethyl t-butyl ether	10/23/2019	0.5		n	u		0.50	0.32	ug/L
TB-5-101819	1935863-06	Chloromethane	10/23/2019	0.5		n	u		0.50	0.11	ug/L
TB-5-101819	1935863-06	2-Hexanone	10/23/2019	10		n	u		10	5.0	ug/L
TB-5-101819	1935863-06	Methacrylonitrile	10/23/2019	10		n	u		10	2.3	ug/L
TB-5-101819	1935863-06	Methyl ethyl ketone	10/23/2019	10		n	u		10	3.3	ug/L
TB-5-101819	1935863-06	Methyl iodide	10/23/2019	2		n	u	UJ	2.0	1.1	ug/L
TB-5-101819	1935863-06	Methyl isobutyl ketone	10/23/2019	10		n	u		10	2.4	ug/L
TB-5-101819	1935863-06	Methyl methacrylate	10/23/2019	5		n	u		5.0	1.2	ug/L
TB-5-101819	1935863-06	Pentachloroethane	10/23/2019	2		n	u		2.0	0.63	ug/L
TB-5-101819	1935863-06	Bromochloromethane	10/23/2019	0.5		n	u		0.50	0.27	ug/L
TB-5-101819	1935863-06	1,3-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.16	ug/L
TB-5-101819	1935863-06	Propionitrile	10/23/2019	20		n	u		20	6.2	ug/L
TB-5-101819	1935863-06	1,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	trans-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.17	ug/L

SDG: 1935863

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-5-101819	1935863-06	cis-1,2-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
TB-5-101819	1935863-06	1,1-Dichloroethene	10/23/2019	0.5		n	u		0.50	0.27	ug/L
TB-5-101819	1935863-06	1,2-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
TB-5-101819	1935863-06	1,1-Dichloroethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	Chloroethane	10/23/2019	0.5		n	u		0.50	0.17	ug/L
TB-5-101819	1935863-06	1,4-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.15	ug/L
TB-5-101819	1935863-06	Chloroform	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	1,2-Dichlorobenzene	10/23/2019	0.5		n	u		0.50	0.21	ug/L
TB-5-101819	1935863-06	Dibromomethane	10/23/2019	0.5		n	u		0.50	0.23	ug/L
TB-5-101819	1935863-06	1,2-Dibromoethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
TB-5-101819	1935863-06	1,2-Dibromo-3-chloropropane	10/23/2019	1		n	u		1.0	0.89	ug/L
TB-5-101819	1935863-06	Dibromochloromethane	10/23/2019	0.5		n	u		0.50	0.22	ug/L
TB-5-101819	1935863-06	4-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.093	ug/L
TB-5-101819	1935863-06	2-Chlorotoluene	10/23/2019	0.5		n	u		0.50	0.14	ug/L
TB-5-101819	1935863-06	2,2-Dichloropropane	10/23/2019	0.5		n	u		0.50	0.18	ug/L
TB-5-101819	1935863-06	Dichlorodifluoromethane	10/23/2019	0.5		n	u		0.50	0.15	ug/L



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
David.Conner@tideh2o.net

December 17, 2019

SUBJECT: NASA JPL, 4Q2019, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on November 20, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #46573:

SDG #

Fraction

1935983, 1936104
1936293, 1936445

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

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

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

EDD 90/10 (client select)

LDC #46573 (Tidewater- Powell, OH / NASA JPL, 4Q2019)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (524.2)		Cr (200.8)		Cl,SO ₄ NO ₃ -N (300.0)		NO ₃ -N (353.2)		O-PO ₄ -P (365.1)		Cr(VI) (7196)		CLO ₂ (314.0)																		
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	
Matrix: Water/Soil																																		
A	1935983	11/20/19	12/13/19	12	0	11	0	-	-	-	-	-	-	11	0	11	0																	
B	1936104	11/20/19	12/13/19	11	0	10	0	1	0	1	0	1	0	10	0	10	0																	
B	1936104	11/20/19	12/13/19	1	0	1	0	0	0	0	0	0	0	1	0	1	0																	
C	1936293	11/20/19	12/13/19	13	0	12	0	2	0	2	0	2	0	12	0	12	0																	
C	1936293	11/20/19	12/13/19	2	0	2	0	0	0	0	0	0	0	2	0	2	0																	
D	1936445	11/20/19	12/13/19	3	0	1	0	2	0	2	0	2	0	1	0	2	0																	
D	1936445	11/20/19	12/13/19	2	0	2	0	0	0	0	0	0	0	2	0	2	0																	
Total				44	0	39	0	5	0	5	0	5	0	39	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 12, 2019

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935983

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-6-102119	1935983-01	Water	10/21/19
MW-4-5	1935983-02	Water	10/21/19
MW-4-4	1935983-03	Water	10/21/19
MW-4-3	1935983-04	Water	10/21/19
MW-4-2	1935983-05	Water	10/21/19
MW-4-1	1935983-06	Water	10/21/19
MW-12-5	1935983-07	Water	10/21/19
MW-12-4	1935983-08	Water	10/21/19
MW-12-3	1935983-09	Water	10/21/19
MW-12-2	1935983-10	Water	10/21/19
EB-6-102119	1935983-11	Water	10/21/19
SB-2-102119	1935983-12	Water	10/21/19
MW-4-4MS	1935983-03MS	Water	10/21/19
MW-4-4MSD	1935983-03MSD	Water	10/21/19

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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/24/19	Bromomethane Methyl iodide	53.9 58.7	All samples in SDG 1935983	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-9-1024119 was identified as a trip blank. No contaminants were found.

Sample EB-6-102119 was identified as an equipment blank. No contaminants were found.

Sample SB-2-102119 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1935983

Sample	Compound	Flag	A or P	Reason
TB-6-102119 MW-4-5 MW-4-4 MW-4-3 MW-4-2 MW-4-1 MW-12-5 MW-12-4 MW-12-3 MW-12-2 EB-6-102119 SB-2-102119	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1935983

No Sample Data Qualified in this SDG

LDC #: 46573A1a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/11/19

SDG #: 1935983

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	1A	ICAL ≤ 20% rr CV ≤ 30%
IV.	Continuing calibration	SW	COV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 11 SB = 12
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	TB-6-102119	1935983-01	Water	10/21/19
2	MW-4-5	1935983-02	Water	10/21/19
3	MW-4-4	1935983-03	Water	10/21/19
4	MW-4-3	1935983-04	Water	10/21/19
5	MW-4-2	1935983-05	Water	10/21/19
6	MW-4-1	1935983-06	Water	10/21/19
7	MW-12-5	1935983-07	Water	10/21/19
8	MW-12-4	1935983-08	Water	10/21/19
9	MW-12-3	1935983-09	Water	10/21/19
10	MW-12-2	1935983-10	Water	10/21/19
11	EB-6-102119	1935983-11	Water	10/21/19
12	SB-2-102119	1935983-12	Water	10/21/19
13	MW-4-4MS	1935983-03MS	Water	10/21/19
14	MW-4-4MSD	1935983-03MSD	Water	10/21/19

B060297- B1E1

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,1-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 #: 70573 A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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

METHOD: GC/MS VOA (EPA Method 524.3)

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

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

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

#	Date	Standard ID	Compound	Finding %D (Limit: \leq 30.0%)	Associated Samples	Qualifications
	10/24/19	24 Oct 02	B	53.9	A11 (ND)	J/WJ/P
		24 Oct 03	Y I	58.7	↓	↓

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 11, 2019

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935983

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-5	1935983-02	Water	10/21/19
MW-4-4	1935983-03	Water	10/21/19
MW-4-3	1935983-04	Water	10/21/19
MW-4-2	1935983-05	Water	10/21/19
MW-4-1	1935983-06	Water	10/21/19
MW-12-5	1935983-07	Water	10/21/19
MW-12-4	1935983-08	Water	10/21/19
MW-12-3	1935983-09	Water	10/21/19
MW-12-2	1935983-10	Water	10/21/19
EB-6-102119	1935983-11	Water	10/21/19
SB-2-102119	1935983-12	Water	10/21/19
MW-4-5MS	1935983-02MS	Water	10/21/19
MW-4-5MSD	1935983-02MSD	Water	10/21/19
MW-4-5DUP	1935983-02DUP	Water	10/21/19

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 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.

VI. Field Blanks

Sample EB-6-102119 was identified as an equipment blank. No contaminants were found.

Sample SB-2-102119 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

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1935983

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1935983

No Sample Data Qualified in this SDG

LDC #: 46573A4a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1935983

Level III

Laboratory: BC Laboratories, Inc.

Date: 11/6/19

Page: 1 of 1

Reviewer: *ATL*

2nd Reviewer: _____

METHOD: Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=10, SB=11
VII.	Matrix Spike/Matrix Spike Duplicates	A	(12, 13)
VIII.	Duplicate sample analysis	A	14
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
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-4-5	1935983-02	Water	10/21/19
2	MW-4-4	1935983-03	Water	10/21/19
3	MW-4-3	1935983-04	Water	10/21/19
4	MW-4-2	1935983-05	Water	10/21/19
5	MW-4-1	1935983-06	Water	10/21/19
6	MW-12-5	1935983-07	Water	10/21/19
7	MW-12-4	1935983-08	Water	10/21/19
8	MW-12-3	1935983-09	Water	10/21/19
9	MW-12-2	1935983-10	Water	10/21/19
10	EB-6-102119	1935983-11	Water	10/21/19
11	SB-2-102119	1935983-12	Water	10/21/19
12	MW-4-5MS	1935983-02MS	Water	10/21/19
13	MW-4-5MSD	1935983-02MSD	Water	10/21/19
14	MW-4-5DUP	1935983-02DUP	Water	10/21/19
15				

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 11, 2019

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1935983

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-5	1935983-02	Water	10/21/19
MW-4-4	1935983-03	Water	10/21/19
MW-4-3	1935983-04	Water	10/21/19
MW-4-2	1935983-05	Water	10/21/19
MW-4-1	1935983-06	Water	10/21/19
MW-12-5	1935983-07	Water	10/21/19
MW-12-4	1935983-08	Water	10/21/19
MW-12-3	1935983-09	Water	10/21/19
MW-12-2	1935983-10	Water	10/21/19
EB-6-102119	1935983-11	Water	10/21/19
SB-2-102119	1935983-12	Water	10/21/19
MW-4-5MS	1935983-02MS	Water	10/21/19
MW-4-5MSD	1935983-02MSD	Water	10/21/19
MW-4-5DUP	1935983-02DUP	Water	10/21/19
SB-2-102119MS	1935983-12MS	Water	10/21/19
SB-2-102119MSD	1935983-12MSD	Water	10/21/19
SB-2-102119DUP	1935983-12DUP	Water	10/21/19

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) Method 218.6
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 with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Hexavalent chromium	0.000033 mg/L	SB-2-102119

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
SB-2-102119	Hexavalent chromium	0.000042 mg/L	0.000042U mg/L

V. Field Blanks

Sample EB-6-102119 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-6-102119	Hexavalent chromium	0.000046 mg/L

Sample SB-2-102119 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
SB-2-102119	Hexavalent chromium	0.000042 mg/L

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1935983

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1935983

Sample	Analyte	Modified Final Concentration	A or P
SB-2-102119	Hexavalent chromium	0.000042U mg/L	A

LDC #: 46573A6

VALIDATION COMPLETENESS WORKSHEET

Date: 11/6/19

SDG #: 1935983

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL2nd Reviewer: ATL**METHOD: (Analyte) Hexavalent Chromium (EPA Method 218.6), 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	SW	EB=10, SB=11
VI.	Matrix Spike/Matrix Spike Duplicates	A	
VII.	Duplicate sample analysis	A	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	N	
XI	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-4-5	1935983-02	Water	10/21/19
2	MW-4-4	1935983-03	Water	10/21/19
3	MW-4-3	1935983-04	Water	10/21/19
4	MW-4-2	1935983-05	Water	10/21/19
5	MW-4-1	1935983-06	Water	10/21/19
6	MW-12-5	1935983-07	Water	10/21/19
7	MW-12-4	1935983-08	Water	10/21/19
8	MW-12-3	1935983-09	Water	10/21/19
9	MW-12-2	1935983-10	Water	10/21/19
10	EB-6-102119	1935983-11	Water	10/21/19
11	SB-2-102119	1935983-12	Water	10/21/19
12	MW-4-5MS	1935983-02MS	Water	10/21/19
13	MW-4-5MSD	1935983-02MSD	Water	10/21/19
14	MW-4-5DUP	1935983-02DUP	Water	10/21/19
15	SB-2-102119MS	1935983-12MS	Water	10/21/19
16	SB-2-102119MSD	1935983-12MSD	Water	10/21/19
17	SB-2-102119DUP	1935983-12DUP	Water	10/21/19

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-11	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <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
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
12-17	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
12,13,14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 11

Analyte	Blank ID	Blank ID	Blank Action Limit													
	PB	ICB/CCB (mg/L)		11												
Cr6+	0.000033		0.000165	0.000042												

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 #: 46573A6
SDG #: 1935983

VALIDATION FINDINGS WORKSHEET
Field Blanks

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

METHOD: Inorganics

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

Sample: 10 Field Blank / Trip Blank / Rinsate / Other EB (circle one)

Analyte	Concentration Units (mg/L)
Cr6+	0.000046

Sample: 11 Field Blank / Trip Blank / Rinsate / Other SB (circle one)

Analyte	Concentration Units (mg/L)
Cr6+	0.000042

NASA JPL, 4Q2019 - LDC# 46573

SDG: 1935983

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-102119	1935983-11	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-12-2	1935983-10	Total Recoverable Chromium	10/24/2019	0.53	Y	y	v j		3.0	0.50	ug/L
MW-12-3	1935983-09	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-12-4	1935983-08	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-12-5	1935983-07	Total Recoverable Chromium	10/24/2019	0.61	Y	y	v j		3.0	0.50	ug/L
MW-4-1	1935983-06	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-4-2	1935983-05	Total Recoverable Chromium	10/24/2019	1.4	Y	y	v j		3.0	0.50	ug/L
MW-4-3	1935983-04	Total Recoverable Chromium	10/24/2019	3.8	Y	y	v		3.0	0.50	ug/L
MW-4-4	1935983-03	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-4-5	1935983-02	Total Recoverable Chromium	10/24/2019	9.5	Y	y	v		3.0	0.50	ug/L
SB-2-102119	1935983-12	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-102119	1935983-11	Hexavalent Chromium	10/23/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-12-2	1935983-10	Hexavalent Chromium	10/23/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-12-3	1935983-09	Hexavalent Chromium	10/23/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-12-4	1935983-08	Hexavalent Chromium	10/23/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-12-5	1935983-07	Hexavalent Chromium	10/23/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-4-1	1935983-06	Hexavalent Chromium	10/23/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-4-2	1935983-05	Hexavalent Chromium	10/23/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-4-3	1935983-04	Hexavalent Chromium	10/23/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-4-4	1935983-03	Hexavalent Chromium	10/23/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-4-5	1935983-02	Hexavalent Chromium	10/23/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L

SDG: 1935983

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-102119	1935983-12	Hexavalent Chromium	10/23/2019	#####	Y	y	v j	U	0.0002	0.0000	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-6-102119	1935983-11	Perchlorate	11/8/2019	4	Y	n	u		4.0	0.76	ug/L
MW-12-2	1935983-10	Perchlorate	11/8/2019	0.97	Y	y	v j		4.0	0.76	ug/L
MW-12-3	1935983-09	Perchlorate	11/8/2019	3.6	Y	y	v j		4.0	0.76	ug/L
MW-12-4	1935983-08	Perchlorate	11/8/2019	2.1	Y	y	v j		4.0	0.76	ug/L
MW-12-5	1935983-07	Perchlorate	11/8/2019	1.7	Y	y	v j		4.0	0.76	ug/L
MW-4-1	1935983-06	Perchlorate	11/8/2019	4	Y	n	u		4.0	0.76	ug/L
MW-4-2	1935983-05	Perchlorate	11/9/2019	32	Y	y	v		8.0	1.5	ug/L
MW-4-3	1935983-04	Perchlorate	11/8/2019	4	Y	n	u		4.0	0.76	ug/L
MW-4-4	1935983-03	Perchlorate	11/8/2019	4	Y	n	u		4.0	0.76	ug/L
MW-4-5	1935983-02	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
SB-2-102119	1935983-12	Perchlorate	11/8/2019	4	Y	n	u		4.0	0.76	ug/L

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-102119	1935983-11	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-102119	1935983-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-102119	1935983-11	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
EB-6-102119	1935983-11	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-102119	1935983-11	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
EB-6-102119	1935983-11	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1935983

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-6-102119	1935983-11	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
EB-6-102119	1935983-11	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-102119	1935983-11	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-102119	1935983-11	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-102119	1935983-11	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
EB-6-102119	1935983-11	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-102119	1935983-11	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
EB-6-102119	1935983-11	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-102119	1935983-11	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
EB-6-102119	1935983-11	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
EB-6-102119	1935983-11	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-6-102119	1935983-11	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
EB-6-102119	1935983-11	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
EB-6-102119	1935983-11	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
EB-6-102119	1935983-11	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-102119	1935983-11	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-6-102119	1935983-11	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
EB-6-102119	1935983-11	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
EB-6-102119	1935983-11	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
EB-6-102119	1935983-11	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
EB-6-102119	1935983-11	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
EB-6-102119	1935983-11	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1935983

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-6-102119	1935983-11	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-102119	1935983-11	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-102119	1935983-11	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-102119	1935983-11	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
EB-6-102119	1935983-11	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-6-102119	1935983-11	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-6-102119	1935983-11	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-102119	1935983-11	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-102119	1935983-11	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-102119	1935983-11	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-102119	1935983-11	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-102119	1935983-11	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-102119	1935983-11	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-102119	1935983-11	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-102119	1935983-11	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-6-102119	1935983-11	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935983

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-6-102119	1935983-11	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-102119	1935983-11	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-102119	1935983-11	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-102119	1935983-11	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
EB-6-102119	1935983-11	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-102119	1935983-11	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
EB-6-102119	1935983-11	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-102119	1935983-11	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-102119	1935983-11	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-102119	1935983-11	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
EB-6-102119	1935983-11	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-6-102119	1935983-11	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-102119	1935983-11	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-102119	1935983-11	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-102119	1935983-11	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-102119	1935983-11	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-102119	1935983-11	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-102119	1935983-11	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-102119	1935983-11	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
EB-6-102119	1935983-11	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935983

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-6-102119	1935983-11	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
EB-6-102119	1935983-11	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
EB-6-102119	1935983-11	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-102119	1935983-11	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-12-2	1935983-10	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1935983-10	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1935983-10	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-2	1935983-10	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-2	1935983-10	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-2	1935983-10	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1935983-10	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1935983-10	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1935983-10	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1935983-10	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1935983-10	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-2	1935983-10	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935983

Analytical 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	1935983-10	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1935983-10	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-2	1935983-10	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1935983-10	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-12-2	1935983-10	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-2	1935983-10	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1935983-10	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-2	1935983-10	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-2	1935983-10	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1935983-10	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-12-2	1935983-10	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-2	1935983-10	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-12-2	1935983-10	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1935983-10	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1935983-10	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1935983-10	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-2	1935983-10	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1935983-10	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1935983-10	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1935983-10	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935983

Analytical 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	1935983-10	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1935983-10	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1935983-10	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-2	1935983-10	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1935983-10	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1935983-10	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-2	1935983-10	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1935983-10	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1935983-10	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1935983-10	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-2	1935983-10	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1935983-10	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1935983-10	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1935983-10	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1935983-10	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1935983-10	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1935983-10	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1935983-10	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1935983-10	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L

SDG: 1935983

Analytical 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	1935983-10	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-12-2	1935983-10	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-12-2	1935983-10	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-12-2	1935983-10	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-12-2	1935983-10	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-12-2	1935983-10	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1935983-10	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-2	1935983-10	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-12-2	1935983-10	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-12-2	1935983-10	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-12-2	1935983-10	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-2	1935983-10	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-12-2	1935983-10	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-2	1935983-10	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-12-2	1935983-10	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-12-2	1935983-10	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-12-3	1935983-09	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1935983-09	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1935983-09	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1935983-09	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1935983-09	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1935983-09	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1935983-09	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-3	1935983-09	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1935983

Analytical 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	1935983-09	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1935983-09	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1935983-09	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1935983-09	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1935983-09	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-3	1935983-09	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-3	1935983-09	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-3	1935983-09	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-3	1935983-09	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-12-3	1935983-09	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-3	1935983-09	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-12-3	1935983-09	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-3	1935983-09	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-3	1935983-09	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1935983-09	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-12-3	1935983-09	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1935983-09	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1935983-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1935983-09	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1935983-09	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935983

Analytical 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	1935983-09	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1935983-09	Chloroform	10/24/2019	0.68	Y	y	v		0.50	0.14	ug/L
MW-12-3	1935983-09	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1935983-09	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	Carbon tetrachloride	10/24/2019	0.76	Y	y	v		0.50	0.17	ug/L
MW-12-3	1935983-09	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1935983-09	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1935983-09	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-3	1935983-09	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-3	1935983-09	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-3	1935983-09	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1935983-09	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1935983-09	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1935983-09	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1935983-09	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1935983-09	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1935983-09	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1935983-09	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1935983-09	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1935983-09	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L

SDG: 1935983

Analytical 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	1935983-09	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1935983-09	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1935983-09	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1935983-09	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1935983-09	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1935983-09	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1935983-09	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1935983-09	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1935983-09	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-12-3	1935983-09	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1935983-09	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-12-3	1935983-09	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-12-3	1935983-09	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-12-3	1935983-09	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-12-3	1935983-09	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-12-3	1935983-09	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-12-3	1935983-09	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1935983-09	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-12-3	1935983-09	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-12-3	1935983-09	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-12-3	1935983-09	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-12-3	1935983-09	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-3	1935983-09	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L

SDG: 1935983

Analytical 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	1935983-09	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-3	1935983-09	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-12-3	1935983-09	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-4	1935983-08	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1935983-08	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1935983-08	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1935983-08	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1935983-08	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1935983-08	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1935983-08	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1935983-08	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1935983-08	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1935983-08	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1935983-08	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1935983-08	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-12-4	1935983-08	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1935983-08	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1935983-08	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-12-4	1935983-08	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1935983-08	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-4	1935983-08	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935983

Analytical 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	1935983-08	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-4	1935983-08	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-12-4	1935983-08	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-4	1935983-08	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1935983-08	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-4	1935983-08	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-4	1935983-08	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-12-4	1935983-08	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1935983-08	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1935983-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1935983-08	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-4	1935983-08	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1935983-08	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-4	1935983-08	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1935983-08	Chloroform	10/24/2019	0.37	Y	y	v j		0.50	0.14	ug/L
MW-12-4	1935983-08	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1935983-08	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1935983-08	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1935983-08	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L

SDG: 1935983

Analytical 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	1935983-08	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-4	1935983-08	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1935983-08	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1935983-08	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1935983-08	Carbon tetrachloride	10/24/2019	0.24	Y	y	v j		0.50	0.17	ug/L
MW-12-4	1935983-08	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1935983-08	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1935983-08	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1935983-08	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1935983-08	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1935983-08	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1935983-08	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1935983-08	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1935983-08	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1935983-08	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-4	1935983-08	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1935983-08	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1935983-08	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1935983-08	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1935983-08	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1935983-08	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1935983

Analytical 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	1935983-08	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-12-4	1935983-08	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-12-4	1935983-08	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-12-4	1935983-08	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-12-4	1935983-08	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-12-4	1935983-08	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-12-4	1935983-08	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-12-4	1935983-08	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-4	1935983-08	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-12-4	1935983-08	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-12-4	1935983-08	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-12-4	1935983-08	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-12-4	1935983-08	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1935983-08	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-4	1935983-08	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	Chloroform	10/24/2019	0.27	Y	y	v j		0.50	0.14	ug/L
MW-12-5	1935983-07	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-5	1935983-07	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1935983-07	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-5	1935983-07	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1935983-07	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1935983-07	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1935983-07	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1935983-07	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935983

Analytical 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	1935983-07	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1935983-07	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1935983-07	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-5	1935983-07	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1935983-07	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1935983-07	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-12-5	1935983-07	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-12-5	1935983-07	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1935983-07	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-5	1935983-07	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-5	1935983-07	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-5	1935983-07	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-12-5	1935983-07	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-12-5	1935983-07	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1935983-07	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-5	1935983-07	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1935983-07	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1935983-07	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-5	1935983-07	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1935983-07	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935983

Analytical 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	1935983-07	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-5	1935983-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1935983-07	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1935983-07	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1935983-07	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1935983-07	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1935983-07	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1935983-07	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1935983-07	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-5	1935983-07	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1935983-07	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1935983-07	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1935983-07	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-12-5	1935983-07	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1935983-07	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-12-5	1935983-07	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1935983-07	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1935983-07	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1935983-07	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1935983-07	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935983

Analytical 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	1935983-07	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1935983-07	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1935983-07	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1935983-07	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-12-5	1935983-07	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1935983-07	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1935983-07	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1935983-07	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1935983-07	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1935983-07	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1935983-07	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-5	1935983-07	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1935983-07	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-5	1935983-07	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-12-5	1935983-07	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-12-5	1935983-07	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-12-5	1935983-07	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-5	1935983-07	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1935983

Analytical 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	1935983-07	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-12-5	1935983-07	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-4-1	1935983-06	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1935983-06	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1935983-06	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-1	1935983-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1935983-06	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1935983-06	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1935983-06	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1935983-06	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1935983-06	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-4-1	1935983-06	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1935983-06	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-1	1935983-06	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1935983-06	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1935983-06	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-1	1935983-06	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-4-1	1935983-06	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-4-1	1935983-06	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L

SDG: 1935983

Analytical 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	1935983-06	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-1	1935983-06	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-4-1	1935983-06	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-1	1935983-06	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-4-1	1935983-06	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-4-1	1935983-06	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-4-1	1935983-06	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-1	1935983-06	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-1	1935983-06	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1935983-06	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-1	1935983-06	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1935983-06	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-1	1935983-06	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-4-1	1935983-06	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1935983-06	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-1	1935983-06	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-4-1	1935983-06	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1935983-06	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-1	1935983-06	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1935983-06	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-1	1935983-06	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1935983-06	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1935983

Analytical 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	1935983-06	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1935983-06	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1935983-06	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-1	1935983-06	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-1	1935983-06	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1935983-06	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1935983-06	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1935983-06	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1935983-06	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1935983-06	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1935983-06	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1935983-06	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1935983-06	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1935983-06	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1935983-06	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1935983

Analytical 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	1935983-06	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1935983-06	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1935983-06	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1935983-06	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1935983-06	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1935983-06	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-4-1	1935983-06	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-4-1	1935983-06	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-4-1	1935983-06	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-4-1	1935983-06	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-4-1	1935983-06	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-4-1	1935983-06	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1935983-05	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-2	1935983-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1935983-05	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1935983-05	Trichloroethene	10/24/2019	0.41	Y	y	v j		0.50	0.19	ug/L
MW-4-2	1935983-05	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-2	1935983-05	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-4-2	1935983-05	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935983

Analytical 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	1935983-05	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1935983-05	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-2	1935983-05	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1935983-05	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-4-2	1935983-05	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1935983-05	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1935983-05	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1935983-05	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-4-2	1935983-05	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-4-2	1935983-05	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1935983-05	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-2	1935983-05	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-4-2	1935983-05	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-4-2	1935983-05	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-4-2	1935983-05	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-2	1935983-05	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-4-2	1935983-05	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-4-2	1935983-05	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-4-2	1935983-05	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1935983-05	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-4-2	1935983-05	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1935983-05	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-2	1935983-05	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935983

Analytical 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	1935983-05	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-2	1935983-05	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-2	1935983-05	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1935983-05	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-2	1935983-05	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1935983-05	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-2	1935983-05	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1935983-05	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-2	1935983-05	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1935983-05	Chloroform	10/24/2019	0.46	Y	y	v j		0.50	0.14	ug/L
MW-4-2	1935983-05	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1935983-05	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1935983-05	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1935983-05	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-2	1935983-05	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-2	1935983-05	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1935983-05	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1935983-05	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935983

Analytical 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	1935983-05	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1935983-05	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-4-2	1935983-05	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1935983-05	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1935983-05	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1935983-05	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1935983-05	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1935983-05	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1935983-05	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1935983-05	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1935983-05	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1935983-05	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1935983-05	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1935983-05	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1935983-05	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1935983-05	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-4-2	1935983-05	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-4-2	1935983-05	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L

SDG: 1935983

Analytical 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	1935983-05	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-4-3	1935983-04	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1935983-04	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1935983-04	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1935983-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1935983-04	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-3	1935983-04	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	Trichloroethene	10/24/2019	0.56	Y	y	v		0.50	0.19	ug/L
MW-4-3	1935983-04	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1935983-04	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1935983-04	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1935983-04	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-3	1935983-04	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1935983-04	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1935983-04	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1935983-04	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1935983-04	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1935983-04	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1935983-04	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1935983-04	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-4-3	1935983-04	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-4-3	1935983-04	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1935983

Analytical 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	1935983-04	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-3	1935983-04	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-3	1935983-04	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-4-3	1935983-04	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-3	1935983-04	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-4-3	1935983-04	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-4-3	1935983-04	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-4-3	1935983-04	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-3	1935983-04	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-3	1935983-04	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-3	1935983-04	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-3	1935983-04	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-4-3	1935983-04	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1935983-04	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-4-3	1935983-04	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1935983-04	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1935983-04	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-4-3	1935983-04	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-3	1935983-04	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1935983-04	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1935983-04	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1935983

Analytical 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	1935983-04	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1935983-04	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1935983-04	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-3	1935983-04	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-3	1935983-04	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1935983-04	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1935983-04	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1935983-04	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-4-3	1935983-04	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-4-3	1935983-04	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-4-3	1935983-04	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1935983-04	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1935983-04	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1935983-04	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1935983-04	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1935983-04	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1935983-04	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1935983-04	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-3	1935983-04	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1935983-04	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L

SDG: 1935983

Analytical 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	1935983-04	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1935983-04	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1935983-04	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1935983-04	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1935983-04	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1935983-04	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1935983-04	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1935983-04	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-4-3	1935983-04	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-4-3	1935983-04	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-3	1935983-04	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-4-4	1935983-03	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-4	1935983-03	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-4	1935983-03	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-4-4	1935983-03	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1935983-03	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-4	1935983-03	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-4	1935983-03	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Trichloroethene	10/24/2019	0.56	Y	y	v		0.50	0.19	ug/L
MW-4-4	1935983-03	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935983

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-4	1935983-03	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1935983-03	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-4-4	1935983-03	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-4	1935983-03	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-4	1935983-03	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1935983-03	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-4	1935983-03	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1935983-03	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-4-4	1935983-03	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-4-4	1935983-03	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-4-4	1935983-03	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1935983-03	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-4	1935983-03	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-4-4	1935983-03	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-4-4	1935983-03	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-4-4	1935983-03	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-4	1935983-03	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-4-4	1935983-03	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-4	1935983-03	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-4	1935983-03	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
MW-4-4	1935983-03	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-4-4	1935983-03	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-4	1935983-03	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L

SDG: 1935983

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-4	1935983-03	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-4	1935983-03	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-4	1935983-03	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-4	1935983-03	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-4-4	1935983-03	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1935983-03	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-4	1935983-03	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-4	1935983-03	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-4	1935983-03	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-4	1935983-03	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-4	1935983-03	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-4	1935983-03	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1935983-03	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-4	1935983-03	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-4	1935983-03	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-4	1935983-03	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1935983-03	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1935983

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-4	1935983-03	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1935983-03	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-4-4	1935983-03	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1935983-03	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-4-4	1935983-03	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-4	1935983-03	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-4	1935983-03	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-4	1935983-03	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-4	1935983-03	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-4	1935983-03	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-4	1935983-03	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1935983-03	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-4	1935983-03	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-4	1935983-03	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-4	1935983-03	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-4	1935983-03	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-4	1935983-03	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-4-4	1935983-03	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L

SDG: 1935983

Analytical Method EPA-524.2

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-5	1935983-02	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1935983-02	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1935983-02	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-5	1935983-02	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1935983-02	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-5	1935983-02	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1935983-02	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-5	1935983-02	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1935983-02	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1935983-02	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1935983-02	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
MW-4-5	1935983-02	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1935983

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-5	1935983-02	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-5	1935983-02	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-5	1935983-02	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-4-5	1935983-02	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1935983-02	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-5	1935983-02	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1935983-02	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1935983-02	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-5	1935983-02	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-5	1935983-02	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-5	1935983-02	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-5	1935983-02	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-5	1935983-02	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1935983-02	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
MW-4-5	1935983-02	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-5	1935983-02	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-5	1935983-02	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-5	1935983-02	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-5	1935983-02	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
MW-4-5	1935983-02	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L

SDG: 1935983

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-5	1935983-02	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
MW-4-5	1935983-02	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-5	1935983-02	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
MW-4-5	1935983-02	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-5	1935983-02	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-5	1935983-02	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
MW-4-5	1935983-02	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
MW-4-5	1935983-02	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-5	1935983-02	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-5	1935983-02	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
MW-4-5	1935983-02	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
MW-4-5	1935983-02	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
MW-4-5	1935983-02	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
MW-4-5	1935983-02	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
MW-4-5	1935983-02	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
MW-4-5	1935983-02	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-5	1935983-02	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1935983-02	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-5	1935983-02	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1935983-02	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-5	1935983-02	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1935983-02	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-5	1935983-02	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L

SDG: 1935983

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-5	1935983-02	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-5	1935983-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1935983-02	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-5	1935983-02	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-5	1935983-02	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-5	1935983-02	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
MW-4-5	1935983-02	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-5	1935983-02	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-5	1935983-02	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-5	1935983-02	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
MW-4-5	1935983-02	Trichloroethene	10/24/2019	0.54	Y	y	v		0.50	0.19	ug/L
SB-2-102119	1935983-12	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
SB-2-102119	1935983-12	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-102119	1935983-12	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-102119	1935983-12	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-102119	1935983-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-102119	1935983-12	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L
SB-2-102119	1935983-12	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-102119	1935983-12	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-102119	1935983-12	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-102119	1935983-12	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1935983

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-2-102119	1935983-12	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-102119	1935983-12	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-102119	1935983-12	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-102119	1935983-12	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-102119	1935983-12	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-102119	1935983-12	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-102119	1935983-12	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-102119	1935983-12	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-102119	1935983-12	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
SB-2-102119	1935983-12	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
SB-2-102119	1935983-12	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
SB-2-102119	1935983-12	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
SB-2-102119	1935983-12	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
SB-2-102119	1935983-12	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
SB-2-102119	1935983-12	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
SB-2-102119	1935983-12	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
SB-2-102119	1935983-12	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
SB-2-102119	1935983-12	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-102119	1935983-12	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
SB-2-102119	1935983-12	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
SB-2-102119	1935983-12	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
SB-2-102119	1935983-12	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-102119	1935983-12	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
SB-2-102119	1935983-12	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1935983

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-2-102119	1935983-12	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
SB-2-102119	1935983-12	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
SB-2-102119	1935983-12	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
SB-2-102119	1935983-12	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
SB-2-102119	1935983-12	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
SB-2-102119	1935983-12	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-2-102119	1935983-12	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
SB-2-102119	1935983-12	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
SB-2-102119	1935983-12	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-102119	1935983-12	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-102119	1935983-12	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-102119	1935983-12	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-102119	1935983-12	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-102119	1935983-12	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
SB-2-102119	1935983-12	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
SB-2-102119	1935983-12	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-102119	1935983-12	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-102119	1935983-12	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-102119	1935983-12	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
SB-2-102119	1935983-12	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1935983

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-2-102119	1935983-12	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
SB-2-102119	1935983-12	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
SB-2-102119	1935983-12	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-102119	1935983-12	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-102119	1935983-12	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-102119	1935983-12	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-102119	1935983-12	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-102119	1935983-12	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-102119	1935983-12	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-102119	1935983-12	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-102119	1935983-12	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-102119	1935983-12	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-102119	1935983-12	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-102119	1935983-12	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
SB-2-102119	1935983-12	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-102119	1935983-12	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-102119	1935983-12	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-102119	1935983-12	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-102119	1935983-12	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	Methylene chloride	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1935983

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-6-102119	1935983-01	1,1-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-102119	1935983-01	1,1-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-102119	1935983-01	cis-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-102119	1935983-01	trans-1,2-Dichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	1,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	1,1-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	1,3-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-102119	1935983-01	2,2-Dichloropropane	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-102119	1935983-01	1,2-Dichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	cis-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	trans-1,3-Dichloropropene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-102119	1935983-01	Ethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	Hexachlorobutadiene	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-102119	1935983-01	p-Isopropyltoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	Methyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	Naphthalene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-102119	1935983-01	Dichlorodifluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	Chloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	n-Propylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-102119	1935983-01	Isopropylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	Chloroform	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	Bromobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	Bromodichloromethane	10/24/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-102119	1935983-01	Bromoform	10/24/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-6-102119	1935983-01	Bromomethane	10/24/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L

SDG: 1935983

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-6-102119	1935983-01	n-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	sec-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-102119	1935983-01	tert-Butylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-102119	1935983-01	Carbon tetrachloride	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	Chloromethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-102119	1935983-01	Styrene	10/24/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-102119	1935983-01	1,4-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	Bromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-102119	1935983-01	2-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	4-Chlorotoluene	10/24/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-6-102119	1935983-01	Dibromochloromethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-102119	1935983-01	1,2-Dibromo-3-chloropropane	10/24/2019	1	Y	n	u		1.0	0.89	ug/L
TB-6-102119	1935983-01	1,2-Dibromoethane	10/24/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-102119	1935983-01	Dibromomethane	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-102119	1935983-01	1,2-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-102119	1935983-01	1,3-Dichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-102119	1935983-01	Chlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	Propionitrile	10/24/2019	20	Y	n	u		20	6.2	ug/L
TB-6-102119	1935983-01	Nitrobenzene	10/24/2019	0	Y	y	v				ug/L
TB-6-102119	1935983-01	Ethyl t-butyl ether	10/24/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-6-102119	1935983-01	Hexachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-102119	1935983-01	2-Hexanone	10/24/2019	10	Y	n	u		10	5.0	ug/L
TB-6-102119	1935983-01	Methacrylonitrile	10/24/2019	10	Y	n	u		10	2.3	ug/L
TB-6-102119	1935983-01	Methyl ethyl ketone	10/24/2019	10	Y	n	u		10	3.3	ug/L
TB-6-102119	1935983-01	Methyl iodide	10/24/2019	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1935983

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-6-102119	1935983-01	Methyl isobutyl ketone	10/24/2019	10	Y	n	u		10	2.4	ug/L
TB-6-102119	1935983-01	Diethyl ether	10/24/2019	2	Y	n	u		2.0	0.33	ug/L
TB-6-102119	1935983-01	Pentachloroethane	10/24/2019	2	Y	n	u		2.0	0.63	ug/L
TB-6-102119	1935983-01	trans-1,4-Dichloro-2-butene	10/24/2019	5	Y	n	u		5.0	1.8	ug/L
TB-6-102119	1935983-01	Tetrahydrofuran	10/24/2019	20	Y	n	u		20	5.2	ug/L
TB-6-102119	1935983-01	p- & m-Xylenes	10/24/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-6-102119	1935983-01	o-Xylene	10/24/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-102119	1935983-01	Chloroacetonitrile	10/24/2019	0	Y	y	v				ug/L
TB-6-102119	1935983-01	1-Chlorobutane	10/24/2019	0	Y	y	v				ug/L
TB-6-102119	1935983-01	1,1-Dichloropropanone	10/24/2019	0	Y	y	v				ug/L
TB-6-102119	1935983-01	Methyl acrylate	10/24/2019	0	Y	y	v				ug/L
TB-6-102119	1935983-01	2-Nitropropane	10/24/2019	0	Y	y	v				ug/L
TB-6-102119	1935983-01	Benzene	10/24/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-102119	1935983-01	Methyl methacrylate	10/24/2019	5	Y	n	u		5.0	1.2	ug/L
TB-6-102119	1935983-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-102119	1935983-01	1,1,2,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	Tetrachloroethene	10/24/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-102119	1935983-01	Toluene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	1,2,3-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-102119	1935983-01	1,2,4-Trichlorobenzene	10/24/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-102119	1935983-01	1,1,1-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-102119	1935983-01	1,1,2-Trichloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-102119	1935983-01	Trichloroethene	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-102119	1935983-01	Ethyl methacrylate	10/24/2019	4	Y	n	u		4.0	1.3	ug/L
TB-6-102119	1935983-01	1,2,3-Trichloropropane	10/24/2019	1	Y	n	u		1.0	0.78	ug/L

SDG: 1935983

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-6-102119	1935983-01	1,1,1,2-Tetrachloroethane	10/24/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-102119	1935983-01	1,2,4-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-102119	1935983-01	1,3,5-Trimethylbenzene	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-102119	1935983-01	Vinyl chloride	10/24/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-102119	1935983-01	Acetone	10/24/2019	10	Y	n	u		10	6.6	ug/L
TB-6-102119	1935983-01	Acrylonitrile	10/24/2019	5	Y	n	u		5.0	1.5	ug/L
TB-6-102119	1935983-01	Allyl chloride	10/24/2019	5	Y	n	u		5.0	0.47	ug/L
TB-6-102119	1935983-01	t-Amyl Methyl ether	10/24/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-102119	1935983-01	t-Butyl alcohol	10/24/2019	10	Y	n	u		10	9.4	ug/L
TB-6-102119	1935983-01	Carbon disulfide	10/24/2019	1	Y	n	u		1.0	0.48	ug/L
TB-6-102119	1935983-01	Trichlorofluoromethane	10/24/2019	0.5	Y	n	u		0.50	0.14	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 12, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936104

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-7-102219	1936104-01	Water	10/22/19
MW-11-5	1936104-02	Water	10/22/19
MW-11-1	1936104-03	Water	10/22/19
MW-11-4	1936104-04	Water	10/22/19
MW-11-3	1936104-05	Water	10/22/19
MW-11-2**	1936104-06**	Water	10/22/19
MW-21-5	1936104-07	Water	10/22/19
MW-21-4	1936104-08	Water	10/22/19
DUP-5-4Q19	1936104-09	Water	10/22/19
MW-21-3	1936104-10	Water	10/22/19
MW-21-2	1936104-11	Water	10/22/19
EB-7-102219	1936104-12	Water	10/22/19
MW-11-2MS	1936104-06MS	Water	10/22/19
MW-11-2MSD	1936104-06MSD	Water	10/22/19

**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).
- UU (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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/25/19	Bromomethane Methyl iodide	43.6 46.5	All samples in SDG 1936104	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-7-102219 was identified as a trip blank. No contaminants were found.

Sample EB-7-102219 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-21-4 and DUP-5-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-21-4	DUP-5-4Q19	
Chloroform	5.3	6.1	14
1,1-Dichloroethane	0.20	0.19	5
cis-1,2-Dichloroethene	0.32	0.47	38
Tetrachloroethene	2.9	3.0	3
Trichloroethene	0.99	1.0	1

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1936104**

Sample	Compound	Flag	A or P	Reason
TB-7-102219 MW-11-5 MW-11-1 MW-11-4 MW-11-3 MW-11-2** MW-21-5 MW-21-4 DUP-5-4Q19 MW-21-3 MW-21-2 EB-7-102219	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

**NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1936104**

No Sample Data Qualified in this SDG

LDC #: 46573B1a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/10/19

SDG #: 1936104

Level III/IV

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 / A	1 CAL = 20? ✓ 1 CVL = 302
IV.	Continuing calibration	SW	CVL 302
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 12
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-7-102219	1936104-01	Water	10/22/19
2	MW-11-5	1936104-02	Water	10/22/19
3	MW-11-1	1936104-03	Water	10/22/19
4	MW-11-4	1936104-04	Water	10/22/19
5	MW-11-3	1936104-05	Water	10/22/19
6	MW-11-2**	1936104-06**	Water	10/22/19
7	MW-21-5	1936104-07	Water	10/22/19
8	MW-21-4	1936104-08	Water	10/22/19
9	DUP-5-4Q19	1936104-09	Water	10/22/19
10	MW-21-3	1936104-10	Water	10/22/19
11	MW-21-2	1936104-11	Water	10/22/19
12	EB-7-102219	1936104-12	Water	10/22/19
13	MW-11-2MS	1936104-06MS	Water	10/22/19
14	MW-11-2MSD	1936104-06MSD	Water	10/22/19

- B060443 - BK1

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
<i>I. Technical holding times</i>				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
<i>II. GC/MS Instrument performance check</i>				
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?	/			
<i>III. Initial calibration</i>				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) \leq 20%?	/			
<i>IIIa. Initial calibration verification</i>				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) \leq 30%?	/			
<i>IV. Continuing calibration</i>				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	/			
Were all percent differences (%D) of continuing calibration \leq 30%?		/		
<i>V. Laboratory blanks</i>				
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?			/	
<i>VI. Field blanks</i>				
Were field blanks identified in this SDG?	/			
Were target compounds detected in the field blanks?		/		
<i>VII. Surrogate spikes</i>				
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?			/	
<i>VIII. Matrix spike/Matrix spike duplicates</i>				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
<i>IX. Laboratory control samples</i>				
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) within 70-130%?	/			

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
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. Chlorodibromomethane	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. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. Methyl iodide	Z2.

VALIDATION FINDINGS WORKSHEET
Field Duplicates**METHOD:** GCMS VOA (EPA Method 524.2)Y N NA Were field duplicate pairs identified in this SDG?Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	8	9	
K	5.3	6.1	14
I	0.20	0.19	5
QQQ	0.32	0.47	38
AA	2.9	3.0	3
S	0.99	1.0	1

LDC #: 46573B1a

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	10/04/19	Chloroform (PFB)	0.721514	0.721514	0.692444	0.692444	6.702	6.702
			Trichloroethene (CBZ)	0.338405	0.338405	0.345404	0.345404	4.046	4.046
			1,1,2,2-TCA (DFB)	0.525904	0.525904	0.515984	0.515984	14.577	14.577

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	25OCT02 MS V5	10/25/19	Chloroform (PFB)	0.692444	0.793122	0.793122	14.5	14.5
			Trichloroethene (CBZ)	0.345404	0.332232	0.332232	3.8	3.8
			1,1,2,2-TCA (DFB)	0.515984	0.542483	0.542483	5.1	5.1

LDC #: 46575 B1A

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: 6

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.79	97.9	97.9	0
Bromofluorobenzene	↓	10.16	101	101	↓
1,2-Dichlorobenzene-d4	↓	10.99	110	110	↓
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 #: 96573 B1A

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: JVG
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike percent recovery

MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 13/14

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
1,1-Dichloroethene	25.0	25.0	0	26.26	26.23	105	105	105	105	0.114	0.11
Trichloroethene	↓	↓	↓	25.17	25.24	101	101	101	101	0.673	0.67
Benzene	↓	↓	↓	23.74	24.23	95.6	95	96.9	96.5	2.04	2.04
Toluene	↓	↓	↓	23.07	22.29	92.3	92.3	89.2	89.2	3.44	3.44
Chlorobenzene	↓	↓	↓	24.64	22.69	98.6	98.6	90.8	90.8	8.24	8.24

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 #: 06573 B1A

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: 060443-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	25.87	NA	103	103				
Trichloroethene	↓	↓	25.04	↓	100	100				
Benzene	↓	↓	22.84	↓	91.4	91.4				
Toluene	↓	↓	22.07	↓	88.7	88.3				
Chlorobenzene	↓	↓	24.02	↓	96.1	96.1				

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

LDC #: 46573 B1A

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

A_s = Area of the characteristic ion (EICP) for the specific internal standard

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

RRF = Relative response factor of the calibration standard.

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

Df = Dilution factor.

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

Example:

Sample I.D. NH, TCE (ucs)

$$\begin{aligned} \text{Conc.} &= \frac{(294122)(10)}{(390053)(0.945)(40)} \\ &= 25.041 \text{ ug/L} \end{aligned}$$

#	Sample ID	Compound	Reported Concentration (<u>ug/L</u>)	Calculated Concentration ()	Acceptable (Y/N)
			<u>25.04</u>		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 11, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936104

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-11-5	1936104-02	Water	10/22/19
MW-11-1	1936104-03	Water	10/22/19
MW-11-4	1936104-04	Water	10/22/19
MW-11-3	1936104-05	Water	10/22/19
MW-11-2**	1936104-06**	Water	10/22/19
MW-21-5	1936104-07	Water	10/22/19
MW-21-4	1936104-08	Water	10/22/19
DUP-5-4Q19	1936104-09	Water	10/22/19
MW-21-3	1936104-10	Water	10/22/19
MW-21-2	1936104-11	Water	10/22/19
EB-7-102219	1936104-12	Water	10/22/19
MW-11-2MS	1936104-06MS	Water	10/22/19
MW-11-2MSD	1936104-06MSD	Water	10/22/19
MW-11-2DUP	1936104-06DUP	Water	10/22/19

**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.

VI. Field Blanks

Sample EB-7-102219 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 analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-21-4 and DUP-5-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-21-4	DUP-5-4Q19	
Chromium	1.2	1.2	0

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1936104

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1936104

No Sample Data Qualified in this SDG

LDC #: 46573B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/9/19

SDG #: 1936104

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *ATL*2nd Reviewer: *CP***METHOD:** Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=11
VII.	Matrix Spike/Matrix Spike Duplicates	A	(12,13)
VIII.	Duplicate sample analysis	A	14
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(7,8)
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV only.
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-11-5	1936104-02	Water	10/22/19
2	MW-11-1	1936104-03	Water	10/22/19
3	MW-11-4	1936104-04	Water	10/22/19
4	MW-11-3	1936104-05	Water	10/22/19
5	MW-11-2**	1936104-06**	Water	10/22/19
6	MW-21-5	1936104-07	Water	10/22/19
7	MW-21-4	1936104-08	Water	10/22/19
8	DUP-5-4Q19	1936104-09	Water	10/22/19
9	MW-21-3	1936104-10	Water	10/22/19
10	MW-21-2	1936104-11	Water	10/22/19
11	EB-7-102219	1936104-12	Water	10/22/19
12	MW-11-2MS	1936104-06MS	Water	10/22/19
13	MW-11-2MSD	1936104-06MSD	Water	10/22/19
14	MW-11-2DUP	1936104-06DUP	Water	10/22/19
15				

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

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

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

LDC#: 46573B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1

Reviewer: ATL

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	7	8		
Chromium	1.2	1.2	0	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46573B4a.wpd

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 10/25 @ 07:58	Cr	52.251	50.000	105	105	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 10/25 @ 15:54	Cr	40.265	40.000	101	101	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	207.977	207.978	± 0.1 AMU	NA	Y
	%RSD	114.9	156839.6	≤ 5% RSD	1.1	Y

Comments:

LDC #: 46573B4a

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 (B060459)	Laboratory control sample 10/25 e 15:42	CR	39.975	40.000	99.9	99.9	Y
12	Matrix spike 10/25 e 15:49	CR	(SSR-SR) 38.367	40.000	96	96	Y
14	Duplicate 10/25 e 15:46	CR	0.008 (ND)	0.03800 (ND)	N.C	N.C	Y
5	Post digestion spike 10/25 e 15:53	CR	38.716	40.000	96.8	96.8	Y
5	ICP serial dilution 10/25 e 15:48	CR	ND	0.038 (ND)	N.C	N.C	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 11, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936104

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-11-5	1936104-02	Water	10/22/19
MW-11-1	1936104-03	Water	10/22/19
MW-11-4	1936104-04	Water	10/22/19
MW-11-3	1936104-05	Water	10/22/19
MW-11-2**	1936104-06**	Water	10/22/19
MW-21-5	1936104-07	Water	10/22/19
MW-21-4	1936104-08	Water	10/22/19
DUP-5-4Q19	1936104-09	Water	10/22/19
MW-21-3	1936104-10	Water	10/22/19
MW-21-2	1936104-11	Water	10/22/19
EB-7-102219	1936104-12	Water	10/22/19
MW-11-1MS	1936104-03MS	Water	10/22/19
MW-11-1MSD	1936104-03MSD	Water	10/22/19
MW-11-1DUP	1936104-03DUP	Water	10/22/19
MW-11-2MS	1936104-06MS	Water	10/22/19
MW-11-2MSD	1936104-06MSD	Water	10/22/19
MW-11-2DUP	1936104-06DUP	Water	10/22/19
EB-7-102219MS	1936104-12MS	Water	10/22/19
EB-7-102219MSD	1936104-12MSD	Water	10/22/19
EB-7-102219DUP	1936104-12DUP	Water	10/22/19

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Nitrite as Nitrogen by EPA Method 353.2

Orthophosphate as Phosphorus by EPA Method 365.1

Hexavalent Chromium by EPA Method 218.6

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	Hexavalent chromium	0.000054 mg/L	All samples in SDG 1936104

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-11-5	Hexavalent chromium	0.00013 mg/L	0.00013U mg/L
MW-11-1	Hexavalent chromium	0.00010 mg/L	0.00010U mg/L
MW-11-4	Hexavalent chromium	0.000042 mg/L	0.000042U mg/L
MW-21-3	Hexavalent chromium	0.00014 mg/L	0.00014U mg/L
EB-7-102219	Hexavalent chromium	0.000052 mg/L	0.000052U mg/L

V. Field Blanks

Sample EB-7-102219 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-7-102219	Hexavalent chromium	0.000052 mg/L

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-21-4 and DUP-5-4Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-21-4	DUP-5-4Q19	
Hexavalent chromium	0.0012 mg/L	0.0012 mg/L	0
Perchlorate	2.7 ug/L	2.7 ug/L	0

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1936104

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1936104

Sample	Analyte	Modified Final Concentration	A or P
MW-11-5	Hexavalent chromium	0.00013U mg/L	A
MW-11-1	Hexavalent chromium	0.00010U mg/L	A
MW-11-4	Hexavalent chromium	0.000042U mg/L	A
MW-21-3	Hexavalent chromium	0.00014U mg/L	A
EB-7-102219	Hexavalent chromium	0.000052U mg/L	A

LDC #: 46573B6

VALIDATION COMPLETENESS WORKSHEET


Date: 12/9/19

SDG #: 1936104

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: 

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), 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	SW	EB = 11
VI.	Matrix Spike/Matrix Spike Duplicates	A	(12,13), (15,16), (18,19)
VII.	Duplicate sample analysis	A	14, 17, 20
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(7,8)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-11-5	1936104-02	Water	10/22/19
2	MW-11-1	1936104-03	Water	10/22/19
3	MW-11-4	1936104-04	Water	10/22/19
4	MW-11-3	1936104-05	Water	10/22/19
5	MW-11-2**	1936104-06**	Water	10/22/19
6	MW-21-5	1936104-07	Water	10/22/19
7	MW-21-4	1936104-08	Water	10/22/19
8	DUP-5-4Q19	1936104-09	Water	10/22/19
9	MW-21-3	1936104-10	Water	10/22/19
10	MW-21-2	1936104-11	Water	10/22/19
11	EB-7-102219	1936104-12	Water	10/22/19
12	MW-11-1MS	1936104-03MS	Water	10/22/19
13	MW-11-1MSD	1936104-03MSD	Water	10/22/19
14	MW-11-1DUP	1936104-03DUP	Water	10/22/19
15	MW-11-2MS	1936104-06MS	Water	10/22/19
16	MW-11-2MSD	1936104-06MSD	Water	10/22/19
17	MW-11-2DUP	1936104-06DUP	Water	10/22/19

LDC #: 46573B6

VALIDATION COMPLETENESS WORKSHEET

Date: 12/9/19

SDG #: 1936104

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

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

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18	EB-7-102219MS	1936104-12MS	Water	10/22/19
19	EB-7-102219MSD	1936104-12MSD	Water	10/22/19
20	EB-7-102219DUP	1936104-12DUP	Water	10/22/19
21				
22				
23				
24				
25				

Notes: _____

Method: Inorganics (EPA Method See cover)

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

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: All

Analyte	Blank ID	Blank ID	Blank Action Limit											
	PB	ICB/CCB (mg/L)		1	2	3	9	11						
Cr6+		0.000054	0.00027	0.00013	0.00010	0.000042	0.00014	0.000052						

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 (mg/L)		RPD	
	7	8		
Hexavalent Chromium	0.0012	0.0012	0	
Perchlorate (ug/L)	2.7	2.7	0	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46573B6.wpd

LDC #: 46573B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 10/18/19

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	Cr6+	s1	0.2	0.022	1.0000	0.9999	Y
		s2	2	0.252			
		s3	10	1.27			
		s4	25	3.144			
		s5	50	6.336			
CCV ₁ (10/24 e 11:22) Calibration verification	Cr6+	FOUND 25.594	TRUE 25.000		102	102	Y
CCV ₃ (11/09 e 03:48) Calibration verification	ClO ₄ ⁻	10.000	10.000		100	104	Y
CCV ₄ (11/09 e 06:37) Calibration verification	ClO ₄ ⁻	10.000	10.000		100	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 B060391	Laboratory control sample 10/24 e 09:56	Cr6+	mg/L 0.0207	mg/L 0.0200	104	104	Y
15	Matrix spike sample 11/09 e 05:05	ClO4-	(SSR-SR) mg/L 9.091	mg/L 10.101	90.0	88.2	Y
15/16	Duplicate sample 11/09 e 05:20	ClO4-	mg/L 8.1819	mg/L 8.9119	8.54	3.01	Y

Comments: _____

NASA JPL, 4Q2019 - LDC# 46573

SDG: 1936104

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-5-4Q19	1936104-09	Total Recoverable Chromium	10/25/2019	1.2	Y	y	v j		3.0	0.50	ug/L
EB-7-102219	1936104-12	Total Recoverable Chromium	10/25/2019	3	Y	n	u		3.0	0.50	ug/L
MW-11-1	1936104-03	Total Recoverable Chromium	10/25/2019	4.5	Y	y	v		3.0	0.50	ug/L
MW-11-2	1936104-06	Total Recoverable Chromium	10/25/2019	3	Y	n	u		3.0	0.50	ug/L
MW-11-3	1936104-05	Total Recoverable Chromium	10/25/2019	1.3	Y	y	v j		3.0	0.50	ug/L
MW-11-4	1936104-04	Total Recoverable Chromium	10/25/2019	3	Y	n	u		3.0	0.50	ug/L
MW-11-5	1936104-02	Total Recoverable Chromium	10/25/2019	1.2	Y	y	v j		3.0	0.50	ug/L
MW-21-2	1936104-11	Total Recoverable Chromium	10/25/2019	3	Y	n	u		3.0	0.50	ug/L
MW-21-3	1936104-10	Total Recoverable Chromium	10/25/2019	3	Y	n	u		3.0	0.50	ug/L
MW-21-4	1936104-08	Total Recoverable Chromium	10/25/2019	1.2	Y	y	v j		3.0	0.50	ug/L
MW-21-5	1936104-07	Total Recoverable Chromium	10/25/2019	1	Y	y	v j		3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-5-4Q19	1936104-09	Hexavalent Chromium	10/24/2019	0.0012	Y	y	v		0.0002	0.0000	mg/L
EB-7-102219	1936104-12	Hexavalent Chromium	10/24/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-11-1	1936104-03	Hexavalent Chromium	10/24/2019	0.0001	Y	y	v j	U	0.0002	0.0000	mg/L
MW-11-2	1936104-06	Hexavalent Chromium	10/24/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-11-3	1936104-05	Hexavalent Chromium	10/24/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-11-4	1936104-04	Hexavalent Chromium	10/24/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-11-5	1936104-02	Hexavalent Chromium	10/24/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-21-2	1936104-11	Hexavalent Chromium	10/24/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-21-3	1936104-10	Hexavalent Chromium	10/24/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-21-4	1936104-08	Hexavalent Chromium	10/24/2019	0.0012	Y	y	v		0.0002	0.0000	mg/L

SDG: 1936104

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-5	1936104-07	Hexavalent Chromium	10/24/2019	0.0011	Y	y	v		0.0002	0.0000	mg/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	1936104-03	Nitrate as N	10/23/2019	1.8	Y	y	v		0.10	0.042	mg/L
MW-11-1	1936104-03	Sulfate	10/23/2019	46	Y	y	v		1.0	0.20	mg/L
MW-11-1	1936104-03	Chloride	10/23/2019	25	Y	y	v		0.50	0.15	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-5-4Q19	1936104-09	Perchlorate	11/9/2019	2.7	Y	y	v j		4.0	0.76	ug/L
EB-7-102219	1936104-12	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
MW-11-1	1936104-03	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
MW-11-2	1936104-06	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
MW-11-3	1936104-05	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
MW-11-4	1936104-04	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
MW-11-5	1936104-02	Perchlorate	11/9/2019	4	Y	n	u		4.0	0.76	ug/L
MW-21-2	1936104-11	Perchlorate	11/9/2019	1.8	Y	y	v j		4.0	0.76	ug/L
MW-21-3	1936104-10	Perchlorate	11/9/2019	2.7	Y	y	v j		4.0	0.76	ug/L
MW-21-4	1936104-08	Perchlorate	11/9/2019	2.7	Y	y	v j		4.0	0.76	ug/L
MW-21-5	1936104-07	Perchlorate	11/9/2019	2.1	Y	y	v j		4.0	0.76	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-11-1	1936104-03	Nitrite as N	10/23/2019	0.05	Y	n	u		0.050	0.010	mg/L

Analytical Method		EPA-365.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units

SDG: 1936104

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	1936104-03	ortho-Phosphate as P	10/23/2019	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
DUP-5-4Q19	1936104-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-4Q19	1936104-09	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
DUP-5-4Q19	1936104-09	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
DUP-5-4Q19	1936104-09	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-5-4Q19	1936104-09	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-4Q19	1936104-09	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-4Q19	1936104-09	Tetrachloroethene	10/25/2019	3	Y	y	v		0.50	0.23	ug/L
DUP-5-4Q19	1936104-09	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-4Q19	1936104-09	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-4Q19	1936104-09	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-5-4Q19	1936104-09	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Trichloroethene	10/25/2019	1	Y	y	v		0.50	0.19	ug/L
DUP-5-4Q19	1936104-09	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-4Q19	1936104-09	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-4Q19	1936104-09	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-4Q19	1936104-09	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
DUP-5-4Q19	1936104-09	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-4Q19	1936104-09	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-5-4Q19	1936104-09	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L

SDG: 1936104

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-5-4Q19	1936104-09	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
DUP-5-4Q19	1936104-09	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
DUP-5-4Q19	1936104-09	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-5-4Q19	1936104-09	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
DUP-5-4Q19	1936104-09	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-4Q19	1936104-09	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
DUP-5-4Q19	1936104-09	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-5-4Q19	1936104-09	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
DUP-5-4Q19	1936104-09	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-4Q19	1936104-09	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-5-4Q19	1936104-09	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-5-4Q19	1936104-09	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-5-4Q19	1936104-09	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-5-4Q19	1936104-09	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-5-4Q19	1936104-09	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
DUP-5-4Q19	1936104-09	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-4Q19	1936104-09	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-5-4Q19	1936104-09	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-5-4Q19	1936104-09	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-5-4Q19	1936104-09	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-4Q19	1936104-09	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-4Q19	1936104-09	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-4Q19	1936104-09	Chloroform	10/25/2019	6.1	Y	y	v		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1936104

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-5-4Q19	1936104-09	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-4Q19	1936104-09	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-4Q19	1936104-09	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-4Q19	1936104-09	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-5-4Q19	1936104-09	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-5-4Q19	1936104-09	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-4Q19	1936104-09	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-4Q19	1936104-09	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-4Q19	1936104-09	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
DUP-5-4Q19	1936104-09	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
DUP-5-4Q19	1936104-09	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
DUP-5-4Q19	1936104-09	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
DUP-5-4Q19	1936104-09	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
DUP-5-4Q19	1936104-09	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-4Q19	1936104-09	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-4Q19	1936104-09	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-4Q19	1936104-09	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-4Q19	1936104-09	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1936104

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-5-4Q19	1936104-09	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-5-4Q19	1936104-09	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-4Q19	1936104-09	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-4Q19	1936104-09	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-4Q19	1936104-09	1,1-Dichloroethane	10/25/2019	0.19	Y	y	v j		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-4Q19	1936104-09	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-4Q19	1936104-09	cis-1,2-Dichloroethene	10/25/2019	0.47	Y	y	v j		0.50	0.27	ug/L
DUP-5-4Q19	1936104-09	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-4Q19	1936104-09	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-4Q19	1936104-09	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-4Q19	1936104-09	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-4Q19	1936104-09	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-4Q19	1936104-09	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-102219	1936104-12	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
EB-7-102219	1936104-12	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
EB-7-102219	1936104-12	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
EB-7-102219	1936104-12	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
EB-7-102219	1936104-12	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-7-102219	1936104-12	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
EB-7-102219	1936104-12	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
EB-7-102219	1936104-12	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
EB-7-102219	1936104-12	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L

SDG: 1936104

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-7-102219	1936104-12	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-102219	1936104-12	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-102219	1936104-12	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-102219	1936104-12	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-102219	1936104-12	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-102219	1936104-12	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-102219	1936104-12	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-102219	1936104-12	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-102219	1936104-12	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-102219	1936104-12	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-102219	1936104-12	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-102219	1936104-12	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-102219	1936104-12	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-102219	1936104-12	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
EB-7-102219	1936104-12	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-7-102219	1936104-12	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
EB-7-102219	1936104-12	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
EB-7-102219	1936104-12	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
EB-7-102219	1936104-12	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
EB-7-102219	1936104-12	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936104

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-7-102219	1936104-12	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-102219	1936104-12	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
EB-7-102219	1936104-12	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-102219	1936104-12	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-102219	1936104-12	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-102219	1936104-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-102219	1936104-12	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
EB-7-102219	1936104-12	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
EB-7-102219	1936104-12	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
EB-7-102219	1936104-12	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-102219	1936104-12	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
EB-7-102219	1936104-12	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-102219	1936104-12	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-102219	1936104-12	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-102219	1936104-12	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-102219	1936104-12	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-7-102219	1936104-12	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-102219	1936104-12	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-102219	1936104-12	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-102219	1936104-12	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1936104

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-7-102219	1936104-12	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-102219	1936104-12	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-102219	1936104-12	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
EB-7-102219	1936104-12	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
EB-7-102219	1936104-12	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-102219	1936104-12	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-102219	1936104-12	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-102219	1936104-12	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-102219	1936104-12	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-102219	1936104-12	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-7-102219	1936104-12	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-102219	1936104-12	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-102219	1936104-12	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-102219	1936104-12	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-102219	1936104-12	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-102219	1936104-12	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-102219	1936104-12	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-7-102219	1936104-12	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-102219	1936104-12	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
EB-7-102219	1936104-12	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L

SDG: 1936104

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-7-102219	1936104-12	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
EB-7-102219	1936104-12	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-7-102219	1936104-12	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-11-1	1936104-03	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-11-1	1936104-03	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1936104-03	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-11-1	1936104-03	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-1	1936104-03	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-11-1	1936104-03	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-11-1	1936104-03	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1936104-03	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-1	1936104-03	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1936104-03	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-11-1	1936104-03	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1936104-03	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-1	1936104-03	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-1	1936104-03	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1936104-03	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-1	1936104-03	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1936104-03	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1936104

Analytical 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	1936104-03	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-1	1936104-03	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-11-1	1936104-03	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1936104-03	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-1	1936104-03	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-1	1936104-03	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1936104-03	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1936104-03	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1936104-03	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1936104-03	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-11-1	1936104-03	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1936104-03	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-1	1936104-03	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-11-1	1936104-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1936104-03	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1936104-03	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1936104

Analytical 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	1936104-03	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-11-1	1936104-03	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-11-1	1936104-03	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1936104-03	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-11-1	1936104-03	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-11-1	1936104-03	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-11-1	1936104-03	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1936104-03	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-1	1936104-03	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-11-1	1936104-03	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1936104-03	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-1	1936104-03	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-1	1936104-03	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-11-1	1936104-03	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1936104-03	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-1	1936104-03	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-1	1936104-03	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-1	1936104-03	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1936104-03	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L

SDG: 1936104

Analytical 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	1936104-03	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-1	1936104-03	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1936104-03	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
MW-11-1	1936104-03	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-11-1	1936104-03	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-11-1	1936104-03	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-1	1936104-03	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-11-1	1936104-03	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-1	1936104-03	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-1	1936104-03	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-11-1	1936104-03	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-11-1	1936104-03	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-11-1	1936104-03	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-1	1936104-03	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-1	1936104-03	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-11-2	1936104-06	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-11-2	1936104-06	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-11-2	1936104-06	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-2	1936104-06	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-11-2	1936104-06	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-11-2	1936104-06	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1936104-06	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-11-2	1936104-06	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-11-2	1936104-06	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L

SDG: 1936104

Analytical 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	1936104-06	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1936104-06	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-11-2	1936104-06	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-11-2	1936104-06	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-11-2	1936104-06	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-11-2	1936104-06	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-2	1936104-06	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-11-2	1936104-06	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-11-2	1936104-06	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-11-2	1936104-06	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-11-2	1936104-06	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-11-2	1936104-06	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-11-2	1936104-06	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1936104-06	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-11-2	1936104-06	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1936104-06	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1936104-06	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1936104-06	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-2	1936104-06	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1936104-06	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1936104-06	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936104

Analytical 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	1936104-06	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1936104-06	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-11-2	1936104-06	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1936104-06	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1936104-06	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-11-2	1936104-06	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-2	1936104-06	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1936104-06	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-2	1936104-06	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-2	1936104-06	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1936104-06	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1936104-06	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1936104-06	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1936104-06	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1936104-06	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-2	1936104-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1936104-06	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1936104-06	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1936104-06	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936104

Analytical 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	1936104-06	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1936104-06	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-11-2	1936104-06	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-2	1936104-06	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-2	1936104-06	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-2	1936104-06	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-11-2	1936104-06	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-2	1936104-06	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1936104-06	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1936104-06	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1936104-06	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-2	1936104-06	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-2	1936104-06	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-2	1936104-06	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-2	1936104-06	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-11-2	1936104-06	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-2	1936104-06	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1936104-06	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-2	1936104-06	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-2	1936104-06	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1936104

Analytical 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	1936104-06	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-2	1936104-06	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-3	1936104-05	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1936104-05	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-3	1936104-05	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1936104-05	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-11-3	1936104-05	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1936104-05	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1936104-05	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1936104-05	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1936104-05	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1936104-05	Methyl t-butyl ether	10/25/2019	0.3	Y	y	v j		0.50	0.14	ug/L
MW-11-3	1936104-05	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1936104-05	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1936104-05	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936104

Analytical 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	1936104-05	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-3	1936104-05	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-3	1936104-05	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-3	1936104-05	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1936104-05	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1936104-05	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-3	1936104-05	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1936104-05	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-3	1936104-05	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-3	1936104-05	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-11-3	1936104-05	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-3	1936104-05	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1936104-05	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1936104-05	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-11-3	1936104-05	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-3	1936104-05	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-11-3	1936104-05	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-3	1936104-05	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1936104-05	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L

SDG: 1936104

Analytical 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	1936104-05	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-11-3	1936104-05	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-11-3	1936104-05	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-3	1936104-05	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-11-3	1936104-05	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-11-3	1936104-05	Carbon disulfide	10/25/2019	0.51	Y	y	v j		1.0	0.48	ug/L
MW-11-3	1936104-05	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-11-3	1936104-05	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-11-3	1936104-05	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-3	1936104-05	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-3	1936104-05	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-11-3	1936104-05	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-11-3	1936104-05	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-11-3	1936104-05	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
MW-11-3	1936104-05	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-11-3	1936104-05	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-11-3	1936104-05	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-11-3	1936104-05	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-3	1936104-05	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-3	1936104-05	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1936104-05	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-3	1936104-05	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-3	1936104-05	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1936104

Analytical 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	1936104-05	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-11-3	1936104-05	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	Styrene	10/25/2019	0.38	Y	y	v j		0.50	0.12	ug/L
MW-11-3	1936104-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1936104-05	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-3	1936104-05	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-3	1936104-05	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-3	1936104-05	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-11-3	1936104-05	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-11-3	1936104-05	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-11-3	1936104-05	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1936104-05	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-11-3	1936104-05	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-3	1936104-05	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1936104-04	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-11-4	1936104-04	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1936104-04	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1936104-04	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1936104-04	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1936104

Analytical 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	1936104-04	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1936104-04	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1936104-04	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1936104-04	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1936104-04	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1936104-04	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1936104-04	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-4	1936104-04	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-4	1936104-04	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-4	1936104-04	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-4	1936104-04	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1936104-04	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-4	1936104-04	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1936104

Analytical 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	1936104-04	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-4	1936104-04	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1936104-04	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-11-4	1936104-04	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-4	1936104-04	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1936104-04	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1936104-04	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-11-4	1936104-04	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-11-4	1936104-04	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-11-4	1936104-04	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-4	1936104-04	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-4	1936104-04	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-11-4	1936104-04	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-11-4	1936104-04	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-11-4	1936104-04	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-4	1936104-04	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-4	1936104-04	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-11-4	1936104-04	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-11-4	1936104-04	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-4	1936104-04	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-4	1936104-04	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-11-4	1936104-04	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-11-4	1936104-04	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-11-4	1936104-04	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L

SDG: 1936104

Analytical 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	1936104-04	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-11-4	1936104-04	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-11-4	1936104-04	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-11-4	1936104-04	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-11-4	1936104-04	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1936104-04	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-4	1936104-04	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1936104-04	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-4	1936104-04	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1936104-04	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-4	1936104-04	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-11-4	1936104-04	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-11-4	1936104-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1936104-04	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-4	1936104-04	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-4	1936104-04	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-4	1936104-04	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-11-4	1936104-04	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-11-4	1936104-04	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-11-4	1936104-04	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-4	1936104-04	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-4	1936104-04	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936104

Analytical 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	1936104-04	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-11-5	1936104-02	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1936104-02	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1936104-02	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-11-5	1936104-02	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-11-5	1936104-02	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-11-5	1936104-02	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-5	1936104-02	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1936104-02	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-5	1936104-02	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-11-5	1936104-02	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1936104-02	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1936104-02	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1936104-02	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-5	1936104-02	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1936104-02	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-11-5	1936104-02	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-11-5	1936104-02	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-11-5	1936104-02	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L

SDG: 1936104

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-5	1936104-02	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
MW-11-5	1936104-02	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-11-5	1936104-02	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-11-5	1936104-02	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-11-5	1936104-02	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1936104-02	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-11-5	1936104-02	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-11-5	1936104-02	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-11-5	1936104-02	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-11-5	1936104-02	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-11-5	1936104-02	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-11-5	1936104-02	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-11-5	1936104-02	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-11-5	1936104-02	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-11-5	1936104-02	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-11-5	1936104-02	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-5	1936104-02	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-11-5	1936104-02	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-11-5	1936104-02	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-11-5	1936104-02	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1936104-02	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-11-5	1936104-02	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-11-5	1936104-02	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-11-5	1936104-02	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1936104

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-5	1936104-02	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-11-5	1936104-02	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-5	1936104-02	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-5	1936104-02	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1936104-02	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-11-5	1936104-02	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1936104-02	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-11-5	1936104-02	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-11-5	1936104-02	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-5	1936104-02	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-11-5	1936104-02	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-11-5	1936104-02	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-11-5	1936104-02	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-11-5	1936104-02	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-11-5	1936104-02	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-11-5	1936104-02	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936104

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-5	1936104-02	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1936104-02	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-11-5	1936104-02	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-11-5	1936104-02	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-11-5	1936104-02	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1936104-02	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-11-5	1936104-02	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-11-5	1936104-02	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-11-5	1936104-02	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1936104-11	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1936104-11	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1936104-11	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1936104-11	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1936104-11	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1936104-11	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1936104

Analytical 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	1936104-11	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1936104-11	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1936104-11	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1936104-11	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1936104-11	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1936104-11	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-21-2	1936104-11	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1936104-11	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1936104-11	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-2	1936104-11	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-2	1936104-11	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1936104-11	Chloroform	10/25/2019	0.2	Y	y	v j		0.50	0.14	ug/L
MW-21-2	1936104-11	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1936104-11	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1936104-11	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L

SDG: 1936104

Analytical 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	1936104-11	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1936104-11	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-2	1936104-11	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1936104-11	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-2	1936104-11	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1936104-11	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1936104-11	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-21-2	1936104-11	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-2	1936104-11	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-2	1936104-11	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-2	1936104-11	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1936104-11	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-21-2	1936104-11	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-21-2	1936104-11	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-21-2	1936104-11	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-2	1936104-11	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-2	1936104-11	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-2	1936104-11	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1936104-11	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-21-2	1936104-11	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-21-2	1936104-11	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-2	1936104-11	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1936104-11	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-21-2	1936104-11	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1936104-11	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L

SDG: 1936104

Analytical 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	1936104-11	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-21-2	1936104-11	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-21-2	1936104-11	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-21-2	1936104-11	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1936104-11	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1936104-11	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	Tetrachloroethene	10/25/2019	0.43	Y	y	v j		0.50	0.23	ug/L
MW-21-2	1936104-11	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-21-2	1936104-11	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1936104-11	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-2	1936104-11	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1936104-11	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1936104-11	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1936104-11	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1936104-11	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-21-2	1936104-11	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-2	1936104-11	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-2	1936104-11	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-21-2	1936104-11	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1936104-11	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1936104-11	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1936104-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1936104-11	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L

SDG: 1936104

Analytical 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	1936104-10	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-21-3	1936104-10	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
MW-21-3	1936104-10	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-21-3	1936104-10	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-21-3	1936104-10	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-21-3	1936104-10	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1936104-10	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-3	1936104-10	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-21-3	1936104-10	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-21-3	1936104-10	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-21-3	1936104-10	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1936104-10	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1936104-10	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-21-3	1936104-10	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1936104-10	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1936104-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1936104-10	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-3	1936104-10	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-3	1936104-10	Trichloroethene	10/25/2019	0.68	Y	y	v		0.50	0.19	ug/L
MW-21-3	1936104-10	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1936104-10	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1936104-10	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1936104-10	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1936104

Analytical 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	1936104-10	Tetrachloroethene	10/25/2019	0.57	Y	y	v		0.50	0.23	ug/L
MW-21-3	1936104-10	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1936104-10	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-3	1936104-10	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-21-3	1936104-10	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-21-3	1936104-10	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-3	1936104-10	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-3	1936104-10	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1936104-10	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-21-3	1936104-10	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1936104-10	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-3	1936104-10	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-21-3	1936104-10	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1936104-10	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1936104-10	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-3	1936104-10	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-3	1936104-10	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-3	1936104-10	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-3	1936104-10	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-3	1936104-10	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-21-3	1936104-10	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-21-3	1936104-10	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1936104-10	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1936104

Analytical 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	1936104-10	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1936104-10	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1936104-10	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-3	1936104-10	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1936104-10	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-3	1936104-10	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1936104-10	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	Chloroform	10/25/2019	0.4	Y	y	v j		0.50	0.14	ug/L
MW-21-3	1936104-10	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1936104-10	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1936104-10	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1936104-10	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1936104-10	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-3	1936104-10	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1936104-10	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1936104-10	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1936104-10	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1936104-10	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936104

Analytical 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	1936104-10	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1936104-10	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-3	1936104-10	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1936104-10	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1936104-10	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1936104-10	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1936104-10	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1936104-10	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1936104-10	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1936104-10	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1936104-10	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1936104-08	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	Tetrachloroethene	10/25/2019	2.9	Y	y	v		0.50	0.23	ug/L
MW-21-4	1936104-08	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1936104-08	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1936104-08	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1936104-08	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1936104-08	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1936104-08	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1936104-08	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1936104-08	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936104

Analytical 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	1936104-08	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1936104-08	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1936104-08	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1936104-08	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1936104-08	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-21-4	1936104-08	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-21-4	1936104-08	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-4	1936104-08	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-4	1936104-08	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-4	1936104-08	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-4	1936104-08	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-4	1936104-08	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1936104-08	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-21-4	1936104-08	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1936104-08	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-4	1936104-08	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-21-4	1936104-08	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-4	1936104-08	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-21-4	1936104-08	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-21-4	1936104-08	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-21-4	1936104-08	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-4	1936104-08	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L

SDG: 1936104

Analytical 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	1936104-08	Trichloroethene	10/25/2019	0.99	Y	y	v		0.50	0.19	ug/L
MW-21-4	1936104-08	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1936104-08	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1936104-08	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-4	1936104-08	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-4	1936104-08	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1936104-08	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1936104-08	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1936104-08	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1936104-08	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1936104-08	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-21-4	1936104-08	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-21-4	1936104-08	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
MW-21-4	1936104-08	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-21-4	1936104-08	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-21-4	1936104-08	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-21-4	1936104-08	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1936104-08	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-4	1936104-08	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1936104-08	cis-1,2-Dichloroethene	10/25/2019	0.32	Y	y	v j		0.50	0.27	ug/L
MW-21-4	1936104-08	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1936104-08	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	1,1-Dichloroethane	10/25/2019	0.2	Y	y	v j		0.50	0.15	ug/L

SDG: 1936104

Analytical 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	1936104-08	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1936104-08	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1936104-08	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1936104-08	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1936104-08	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1936104-08	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1936104-08	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-4	1936104-08	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1936104-08	Chloroform	10/25/2019	5.3	Y	y	v		0.50	0.14	ug/L
MW-21-4	1936104-08	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-4	1936104-08	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1936104-08	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-4	1936104-08	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
MW-21-4	1936104-08	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1936104-08	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1936104-08	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1936104-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1936104-08	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-4	1936104-08	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1936104-08	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1936104-08	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-5	1936104-07	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936104

Analytical 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	1936104-07	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1936104-07	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1936104-07	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1936104-07	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-5	1936104-07	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-5	1936104-07	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	Tetrachloroethene	10/25/2019	0.68	Y	y	v		0.50	0.23	ug/L
MW-21-5	1936104-07	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1936104-07	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1936104-07	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1936104-07	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
MW-21-5	1936104-07	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1936104-07	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1936104-07	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1936104-07	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
MW-21-5	1936104-07	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
MW-21-5	1936104-07	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1936104-07	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-5	1936104-07	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1936104

Analytical 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	1936104-07	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
MW-21-5	1936104-07	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
MW-21-5	1936104-07	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
MW-21-5	1936104-07	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-5	1936104-07	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
MW-21-5	1936104-07	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-5	1936104-07	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
MW-21-5	1936104-07	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
MW-21-5	1936104-07	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
MW-21-5	1936104-07	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-5	1936104-07	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1936104-07	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-5	1936104-07	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1936104-07	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1936104-07	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
MW-21-5	1936104-07	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-5	1936104-07	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
MW-21-5	1936104-07	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1936104-07	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1936104-07	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1936104

Analytical 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	1936104-07	Chloroform	10/25/2019	5.4	Y	y	v		0.50	0.14	ug/L
MW-21-5	1936104-07	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1936104-07	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-5	1936104-07	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
MW-21-5	1936104-07	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-5	1936104-07	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-5	1936104-07	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1936104-07	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1936104-07	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-5	1936104-07	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-21-5	1936104-07	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1936104-07	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
MW-21-5	1936104-07	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1936104-07	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1936104-07	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1936104-07	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1936104-07	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1936104-07	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1936104-07	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1936104

Analytical 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	1936104-07	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1936104-07	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1936104-07	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-5	1936104-07	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-5	1936104-07	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1936104-07	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-5	1936104-07	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1936104-07	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1936104-07	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1936104-07	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	1,3-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-102219	1936104-01	Dichlorodifluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	1,1-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	1,2-Dichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	1,1-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-102219	1936104-01	cis-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-102219	1936104-01	trans-1,2-Dichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	1,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	1,4-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	2,2-Dichloropropane	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-102219	1936104-01	1,1-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-102219	1936104-01	cis-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	trans-1,3-Dichloropropene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-102219	1936104-01	Ethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936104

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-7-102219	1936104-01	Hexachlorobutadiene	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-102219	1936104-01	Isopropylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	p-Isopropyltoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	Methylene chloride	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-102219	1936104-01	Naphthalene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-102219	1936104-01	Methyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	Chloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	Diethyl ether	10/25/2019	2	Y	n	u		2.0	0.33	ug/L
TB-7-102219	1936104-01	Bromobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	n-Propylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-102219	1936104-01	Bromodichloromethane	10/25/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-102219	1936104-01	Bromoform	10/25/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-7-102219	1936104-01	Bromomethane	10/25/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-7-102219	1936104-01	n-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	sec-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-102219	1936104-01	tert-Butylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-102219	1936104-01	Bromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-102219	1936104-01	Chlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	1,3-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-102219	1936104-01	Chloroform	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	Chloromethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-102219	1936104-01	2-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	4-Chlorotoluene	10/25/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-7-102219	1936104-01	Dibromochloromethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-102219	1936104-01	1,2-Dibromo-3-chloropropane	10/25/2019	1	Y	n	u		1.0	0.89	ug/L

SDG: 1936104

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-7-102219	1936104-01	1,2-Dibromoethane	10/25/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-102219	1936104-01	Dibromomethane	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-102219	1936104-01	1,2-Dichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-102219	1936104-01	Carbon tetrachloride	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	Tetrahydrofuran	10/25/2019	20	Y	n	u		20	5.2	ug/L
TB-7-102219	1936104-01	Carbon disulfide	10/25/2019	1	Y	n	u		1.0	0.48	ug/L
TB-7-102219	1936104-01	Hexachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-102219	1936104-01	2-Hexanone	10/25/2019	10	Y	n	u		10	5.0	ug/L
TB-7-102219	1936104-01	Methacrylonitrile	10/25/2019	10	Y	n	u		10	2.3	ug/L
TB-7-102219	1936104-01	Methyl ethyl ketone	10/25/2019	10	Y	n	u		10	3.3	ug/L
TB-7-102219	1936104-01	Methyl iodide	10/25/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-7-102219	1936104-01	Methyl isobutyl ketone	10/25/2019	10	Y	n	u		10	2.4	ug/L
TB-7-102219	1936104-01	Methyl methacrylate	10/25/2019	5	Y	n	u		5.0	1.2	ug/L
TB-7-102219	1936104-01	Ethyl methacrylate	10/25/2019	4	Y	n	u		4.0	1.3	ug/L
TB-7-102219	1936104-01	Propionitrile	10/25/2019	20	Y	n	u		20	6.2	ug/L
TB-7-102219	1936104-01	trans-1,4-Dichloro-2-butene	10/25/2019	5	Y	n	u		5.0	1.8	ug/L
TB-7-102219	1936104-01	p- & m-Xylenes	10/25/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-7-102219	1936104-01	o-Xylene	10/25/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-102219	1936104-01	Chloroacetonitrile	10/25/2019	0	Y	y	v				ug/L
TB-7-102219	1936104-01	1-Chlorobutane	10/25/2019	0	Y	y	v				ug/L
TB-7-102219	1936104-01	1,1-Dichloropropanone	10/25/2019	0	Y	y	v				ug/L
TB-7-102219	1936104-01	Methyl acrylate	10/25/2019	0	Y	y	v				ug/L
TB-7-102219	1936104-01	Nitrobenzene	10/25/2019	0	Y	y	v				ug/L
TB-7-102219	1936104-01	2-Nitropropane	10/25/2019	0	Y	y	v				ug/L
TB-7-102219	1936104-01	Benzene	10/25/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1936104

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-7-102219	1936104-01	Pentachloroethane	10/25/2019	2	Y	n	u		2.0	0.63	ug/L
TB-7-102219	1936104-01	1,2,3-Trichloropropane	10/25/2019	1	Y	n	u		1.0	0.78	ug/L
TB-7-102219	1936104-01	1,1,1,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-102219	1936104-01	1,1,2,2-Tetrachloroethane	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	Tetrachloroethene	10/25/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-102219	1936104-01	Toluene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	1,2,3-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-102219	1936104-01	1,2,4-Trichlorobenzene	10/25/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-102219	1936104-01	1,1,1-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-102219	1936104-01	1,1,2-Trichloroethane	10/25/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-102219	1936104-01	Ethyl t-butyl ether	10/25/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-7-102219	1936104-01	Trichlorofluoromethane	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	Styrene	10/25/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-102219	1936104-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-102219	1936104-01	1,2,4-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-102219	1936104-01	1,3,5-Trimethylbenzene	10/25/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-102219	1936104-01	Vinyl chloride	10/25/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-102219	1936104-01	Acetone	10/25/2019	10	Y	n	u		10	6.6	ug/L
TB-7-102219	1936104-01	Acrylonitrile	10/25/2019	5	Y	n	u		5.0	1.5	ug/L
TB-7-102219	1936104-01	Allyl chloride	10/25/2019	5	Y	n	u		5.0	0.47	ug/L
TB-7-102219	1936104-01	t-Amyl Methyl ether	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-102219	1936104-01	t-Butyl alcohol	10/25/2019	10	Y	n	u		10	9.4	ug/L
TB-7-102219	1936104-01	Trichloroethene	10/25/2019	0.5	Y	n	u		0.50	0.19	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 16, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936293

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-8-102319	1936293-01	Water	10/23/19
MW-18-5	1936293-02	Water	10/23/19
MW-18-4	1936293-03	Water	10/23/19
MW-18-3	1936293-04	Water	10/23/19
MW-18-2	1936293-05	Water	10/23/19
DUP-7-4Q19 (10:15)	1936293-06	Water	10/23/19
EB-8-102319	1936293-07	Water	10/23/19
MW-6**	1936293-08**	Water	10/23/19
MW-10	1936293-09	Water	10/23/19
MW-5	1936293-10	Water	10/23/19
DUP-6-4Q19	1936293-11	Water	10/23/19
MW-15**	1936293-12**	Water	10/23/19
MW-8	1936293-13	Water	10/23/19
DUP-7-4Q19 (11:35)	1936293-14	Water	10/23/19
MW-7	1936293-15	Water	10/23/19
MW-6MS	1936293-08MS	Water	10/23/19
MW-6MSD	1936293-08MSD	Water	10/23/19
MW-15MS	1936293-12MS	Water	10/23/19
MW-15MSD	1936293-12MSD	Water	10/23/19

**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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/28/19	Bromomethane Methyl iodide	42.6 42.2	All samples in SDG 1936293	UJ (all non-detects) UJ (all non-detects)	P

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-8-102319 was identified as a trip blank. No contaminants were found.

Sample EB-8-102319 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-18-2 and DUP-7-4Q19 (10:15), samples MW-5 and DUP-6-4Q19, and samples MW-8 and DUP-7-4Q19 (11:35) were identified as field duplicates. No results were detected in any of the samples.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1936293

Sample	Compound	Flag	A or P	Reason
TB-8-102319 MW-18-5 MW-18-4 MW-18-3 MW-18-2 DUP-7-4Q19 (10:15) EB-8-102319 MW-6** MW-10 MW-5 DUP-6-4Q19 MW-15** MW-8 DUP-7-4Q19 (11:35) MW-7	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1936293

No Sample Data Qualified in this SDG

LDC #: 46573C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1936293

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/11/19

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/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	ICAL \leq 20% \checkmark ICV \leq 30%
IV.	Continuing calibration	SW	CCV \leq 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 7
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	ND	D = 5/6, 10/11, 13/14
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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-8-102319	1936293-01	Water	10/23/19
2	MW-18-5	1936293-02	Water	10/23/19
3	MW-18-4	1936293-03	Water	10/23/19
4	MW-18-3	1936293-04	Water	10/23/19
5	MW-18-2 D_1	1936293-05	Water	10/23/19
(10:15) 6	DUP-7-4Q19 D_1	1936293-06	Water	10/23/19
7	EB-8-102319	1936293-07	Water	10/23/19
8 ⁺	MW-6**	1936293-08**	Water	10/23/19
9	MW-10	1936293-09	Water	10/23/19
10	MW-5 D_2	1936293-10	Water	10/23/19
11	DUP-6-4Q19 D_2	1936293-11	Water	10/23/19
12	MW-15**	1936293-12**	Water	10/23/19
13	MW-8 D_3	1936293-13	Water	10/23/19
(11:25) 14	DUP-7-4Q19 D_3	1936293-14	Water	10/23/19

LDC #: 46573C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1936293

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/10/19

Page: 2 of 2

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC/MS Volatiles (EPA Method 524.2)

	Client ID	Lab ID	Matrix	Date
15	MW-7	1936293-15	Water	10/23/19
16	MW-6MS	1936293-08MS	Water	10/23/19
17	MW-6MSD	1936293-08MSD	Water	10/23/19
18	MW-15MS	1936293-12MS	Water	10/23/19
19	MW-15MSD	1936293-12MSD	Water	10/23/19
20				
21				
22				
23				
24				

Notes:

1	B060559 - Bkt 1				
2	B060560 -				

LDC #: 46572C1a

VALIDATION FINDINGS CHECKLIST

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

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	/			
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) \leq 20%?	/			
IIIa. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) \leq 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 \leq 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?		/		
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				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in 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 per analytical batch?	/			
Were the LCS percent recoveries (%R) within 70-130%?	/			

LDC #: 46573C1a

VALIDATION FINDINGS CHECKLIST

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

Validation Area	Yes	No	NA	Findings/Comments
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 <u>±</u> 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.	/			

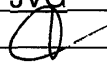
TARGET COMPOUND WORKSHEET

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. Methyl iodide	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 46573C1a

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	10/04/19	Chloroform (PFB)	0.721514	0.721514	0.692444	0.692444	6.702	6.702
			Trichloroethene (CBZ)	0.338405	0.338405	0.345404	0.345404	4.046	4.046
			1,1,2,2-TCA (DFB)	0.525904	0.525904	0.515984	0.515984	14.577	14.577

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	28OCT02 MS V5	10/28/19	Chloroform (PFB)	0.692444	0.728320	0.728320	5.2	5.2
			Trichloroethene (CBZ)	0.345404	0.332265	0.332265	3.8	3.8
			1,1,2,2-TCA (DFB)	0.515984	0.570845	0.570845	10.6	10.6

LDC #: 46573 CA

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1

Reviewer: JVG

2nd reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 48

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	16.0	9.79	97.5	97.5	0
Bromofluorobenzene	↓	16.42	104	104	↓
1,2-Dichlorobenzene-d4	↓	11.08	111	111	↓
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 #: 46573 CIA

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: 18/19

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	24.5	24.55	98.1	98.1	98.2	98.2	0.122	0.12
Trichloroethene	↓	↓	↓	25.27	25.32	101	101	101	101	0.178	0.2
Benzene	↓	↓	↓	22.16	22.33	88.6	88.6	89.3	89.3	0.764	0.76
Toluene	↓	↓	↓	23.79	23.77	95.2	95.2	95.1	95.1	0.084	0.08
Chlorobenzene	↓	↓	↓	23.7	24.23	94.8	94.8	96.9	96.9	2.21	2.2

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 #: 46573C1a

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: B260539 - B51

Compound	Spike Added (ug/L)		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	25.0	NA	25.37	NA	101	101				
Trichloroethene	↓	↓	24.42	↓	97.7	97.7				
Benzene	↓	↓	22.89	↓	91.6	91.6				
Toluene	↓	↓	22.4	↓	89.6	89.6				
Chlorobenzene	↓	↓	23.79	↓	93.6	93.6				

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 #: Y6573C1A

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

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

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

RRF = Relative response factor of the calibration standard.

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

Df = Dilution factor.

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

Example:

Sample I.D. B, TCE:

$$\text{Conc.} = \frac{(31187)(10.0)}{(34536)(0.345264)} = 2.61 \mu\text{g/L}$$

#	Sample ID	Compound	Reported Concentration ($\mu\text{g/L}$)	Calculated Concentration ()	Acceptable (Y/N)
			2.6		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 16, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936293

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-18-5	1936293-02	Water	10/23/19
MW-18-4	1936293-03	Water	10/23/19
MW-18-3	1936293-04	Water	10/23/19
MW-18-2	1936293-05	Water	10/23/19
DUP-7-4Q19 (10:15)	1936293-06	Water	10/23/19
EB-8-102319	1936293-07	Water	10/23/19
MW-6**	1936293-08**	Water	10/23/19
MW-10	1936293-09	Water	10/23/19
MW-5	1936293-10	Water	10/23/19
DUP-6-4Q19	1936293-11	Water	10/23/19
MW-15**	1936293-12**	Water	10/23/19
MW-8	1936293-13	Water	10/23/19
DUP-7-4Q19 (11:35)	1936293-14	Water	10/23/19
MW-7	1936293-15	Water	10/23/19
MW-6MS	1936293-08MS	Water	10/23/19
MW-6MSD	1936293-08MSD	Water	10/23/19
MW-6DUP	1936293-08DUP	Water	10/23/19
MW-15MS	1936293-12MS	Water	10/23/19
MW-15MSD	1936293-12MSD	Water	10/23/19
MW-15DUP	1936293-12DUP	Water	10/23/19

**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.

VI. Field Blanks

Sample EB-8-102319 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 with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
MW-15DUP (MW-15** MW-8 DUP-7-4Q19 (11:35) MW-7)	Chromium	-	3.43 ug/L (≤3.00)	J (all detects)	A

IX. Serial Dilution

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

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-18-2 and DUP-7-4Q19 (10:15), samples MW-5 and DUP-6-4Q19, and samples MW-8 and DUP-7-4Q19 (11:35) 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-6-4Q19	
Chromium	0.74	0.65	13

Analyte	Concentration (ug/L)		RPD
	MW-8	DUP-7-4Q19 (11:35)	
Chromium	2.1	4.0	62

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits.

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 DUP difference, data were qualified as estimated in four samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1936293**

Sample	Analyte	Flag	A or P	Reason
MW-15** MW-8 DUP-7-4Q19 (11:35) MW-7	Chromium	J (all detects)	A	Duplicate sample analysis (difference)

**NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1936293**

No Sample Data Qualified in this SDG

LDC #: 46573C4a

VALIDATION COMPLETENESS WORKSHEET


Date: 12/9/19

SDG #: 1936293

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: **METHOD:** Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	A	
VI.	Field Blanks	ND	EB=6
VII.	Matrix Spike/Matrix Spike Duplicates	A	(15,16), (18,19)
VIII.	Duplicate sample analysis	SW	17, 20
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(9,10), (4,5), (12,13)
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-18-5	1936293-02	Water	10/23/19
2	MW-18-4	1936293-03	Water	10/23/19
3	MW-18-3	1936293-04	Water	10/23/19
4	MW-18-2	1936293-05	Water	10/23/19
5	DUP-7-4Q19 (10-15)	1936293-06	Water	10/23/19
6	EB-8-102319	1936293-07	Water	10/23/19
7	MW-6**	1936293-08**	Water	10/23/19
8	MW-10	1936293-09	Water	10/23/19
9	MW-5	1936293-10	Water	10/23/19
10	DUP-6-4Q19	1936293-11	Water	10/23/19
11	MW-15**	1936293-12**	Water	10/23/19
12	MW-8	1936293-13	Water	10/23/19
13	DUP-7-4Q19 (11-25)	1936293-14	Water	10/23/19
14	MW-7	1936293-15	Water	10/23/19
15	MW-6MS	1936293-08MS	Water	10/23/19

LDC #: 46573C4a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1936293

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 12/9/19

Page: 2 of 2

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: Chromium (EPA Method 200.8)

	Client ID	Lab ID	Matrix	Date
16	MW-6MSD	1936293-08MSD	Water	10/23/19
17	MW-6DUP	1936293-08DUP	Water	10/23/19
18	MW-15MS	1936293-12MS	Water	10/23/19
19	MW-15MSD	1936293-12MSD	Water	10/23/19
20	MW-15DUP	1936293-12DUP	Water	10/23/19
21				
22				
23				
24				
25				

Notes: _____

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

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

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

VALIDATION FINDINGS WORKSHEET Duplicate Analysis

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

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

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

LEVEL IV ONLY:

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

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		20	W	Cr		3.43 ug/L (≤ 3.00)	11 to 14	J/UJ/A (all detect)

Comments: _____

LDC#: 46573C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	9	10		
Chromium	0.74	0.65	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46573C4a.wpd

Analyte	Concentration (ug/L)		RPD	
	12	13		
Chromium	2.1	4.0	62	

DC #: 46573C4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: AD
 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) 10/24 @ 07:49	Cr	51.089	50.000	102	102	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 10/24 @ 19:02	Cr	40.277	40.000	101	101	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	102.905	102.929	± 0.1 AMU	NA	Y
	%RSD	24.0	29521.8	≤ 5% RSD	1.2	Y

Comments:

LDC #: 46573C4a

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 B060371	Laboratory control sample 10/24 e 18:01	Cr	41.383	40.000	103	103	Y
15	Matrix spike 10/24 e 18:07	Cr	(SSR-SR) 40.834	40.000	102	102	Y
20	Duplicate 10/24 e 18:53	Cr	5.175	1.7410	99.3	99.3	Y
11	Post digestion spike 10/24 e 19:00	Cr	38.196	40.000	95.5	95.6	Y
7	ICP serial dilution 10/24 e 18:06	Cr	41.945	38.501	8.9	8.9	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 16, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936293

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-18-5	1936293-02	Water	10/23/19
MW-18-4	1936293-03	Water	10/23/19
MW-18-3	1936293-04	Water	10/23/19
MW-18-2	1936293-05	Water	10/23/19
DUP-7-4Q19 (10:15)	1936293-06	Water	10/23/19
EB-8-102319	1936293-07	Water	10/23/19
MW-6**	1936293-08**	Water	10/23/19
MW-10	1936293-09	Water	10/23/19
MW-5	1936293-10	Water	10/23/19
DUP-6-4Q19	1936293-11	Water	10/23/19
MW-15**	1936293-12**	Water	10/23/19
MW-8	1936293-13	Water	10/23/19
DUP-7-4Q19 (11:35)	1936293-14	Water	10/23/19
MW-7	1936293-15	Water	10/23/19
MW-6MS	1936293-08MS	Water	10/23/19
MW-6MSD	1936293-08MSD	Water	10/23/19
MW-6DUP	1936293-08DUP	Water	10/23/19
MW-15MS	1936293-12MS	Water	10/23/19
MW-15MSD	1936293-12MSD	Water	10/23/19
MW-15DUP	1936293-12DUP	Water	10/23/19
MW-8MS	1936293-13MS	Water	10/23/19
MW-8MSD	1936293-13MSD	Water	10/23/19
MW-8DUP	1936293-13DUP	Water	10/23/19

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Nitrite as Nitrogen by EPA Method 353.2

Orthophosphate as Phosphorus by EPA Method 365.1

Hexavalent Chromium by EPA Method 218.6

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
PB (prep blank)	Hexavalent chromium	0.000037 mg/L	MW-15** MW-8 DUP-7-4Q19 (11:35) MW-7
ICB/CCB	Hexavalent chromium	0.000052 mg/L	All samples in SDG 1936293

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-18-5	Hexavalent chromium	0.000067 mg/L	0.000067U mg/L
MW-18-2	Hexavalent chromium	0.000075 mg/L	0.000075U mg/L
DUP-7-4Q19 (10:15)	Hexavalent chromium	0.000088 mg/L	0.000088U mg/L
MW-5	Hexavalent chromium	0.00018 mg/L	0.00018U mg/L
DUP-6-4Q19	Hexavalent chromium	0.00018 mg/L	0.00018U mg/L

V. Field Blanks

Sample EB-8-102319 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-18-2 and DUP-7-4Q19 (10:15), samples MW-5 and DUP-6-4Q19, and samples MW-8 and DUP-7-4Q19 (11:35) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	MW-18-2	DUP-7-4Q19 (10:15)	
Hexavalent chromium	0.000075	0.000088	16

Analyte	Concentration (mg/L)		RPD
	MW-5	DUP-6-4Q19	
Hexavalent chromium	0.00018	0.00018	0

Analyte	Concentration (mg/L)		RPD
	MW-8	DUP-7-4Q19 (11:35)	
Hexavalent chromium	0.00063	0.00064	2

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 five samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1936293

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1936293

Sample	Analyte	Modified Final Concentration	A or P
MW-18-5	Hexavalent chromium	0.000067U mg/L	A
MW-18-2	Hexavalent chromium	0.000075U mg/L	A
DUP-7-4Q19 (10:15)	Hexavalent chromium	0.000088U mg/L	A
MW-5	Hexavalent chromium	0.00018U mg/L	A
DUP-6-4Q19	Hexavalent chromium	0.00018U mg/L	A

LDC #: 46573C6

VALIDATION COMPLETENESS WORKSHEET

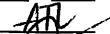
Date: 12/9/19

SDG #: 1936293

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 2nd Reviewer: 

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), 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=6
VI.	Matrix Spike/Matrix Spike Duplicates	A	(15,16), (18,19), (21,22)
VII.	Duplicate sample analysis	A	17, 20, 23
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(4,5), (9,10), (12,13)
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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-18-5	1936293-02	Water	10/23/19
2	MW-18-4	1936293-03	Water	10/23/19
3	MW-18-3	1936293-04	Water	10/23/19
4	MW-18-2	1936293-05	Water	10/23/19
5	DUP-7-4Q19 (10:15)	1936293-06	Water	10/23/19
6	EB-8-102319	1936293-07	Water	10/23/19
7	MW-6**	1936293-08**	Water	10/23/19
8	MW-10	1936293-09	Water	10/23/19
9	MW-5	1936293-10	Water	10/23/19
10	DUP-6-4Q19	1936293-11	Water	10/23/19
11	MW-15**	1936293-12**	Water	10/23/19
12	MW-8	1936293-13	Water	10/23/19
13	DUP-7-4Q19 (11:25)	1936293-14	Water	10/23/19
14	MW-7	1936293-15	Water	10/23/19
15	MW-6MS	1936293-08MS	Water	10/23/19
16	MW-6MSD	1936293-08MSD	Water	10/23/19
17	MW-6DUP	1936293-08DUP	Water	10/23/19

LDC #: 46573C6

VALIDATION COMPLETENESS WORKSHEET

Date: 12/9/19

SDG #: 1936293

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATV

2nd Reviewer: AT

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0)

	Client ID	Lab ID	Matrix	Date
18	MW-15MS	1936293-12MS	Water	10/23/19
19	MW-15MSD	1936293-12MSD	Water	10/23/19
20	MW-15DUP	1936293-12DUP	Water	10/23/19
21	MW-8MS	1936293-13MS	Water	10/23/19
22	MW-8MSD	1936293-13MSD	Water	10/23/19
23	MW-8DUP	1936293-13DUP	Water	10/23/19
24				
25				
26				
27				
28				

Notes: _____

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995 ?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ 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
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> <u>ClO₄</u>
12, 14	pH TDS <u>Cl</u> F <u>NO₃</u> <u>NO₂</u> <u>SO₄</u> <u>O-PO₄</u> 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
OC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
15-20	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>
21, 22, 23	pH TDS Cl F NO ₃ NO ₂ SO ₄ <u>O-PO₄</u> Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 11 to 14

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)											
Cr6+	0.000037		0.000185										

Conc. units: mg/L

Associated Samples: all

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)		1	4	5	9	10					
Cr6+		0.000052	0.000260	0.000067	0.000075	0.000088	0.00018	0.00018					

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 (mg/L)		RPD	
	4	5		
Hexavalent Chromium	0.000075	0.000088	16	

Analyte	Concentration (mg/L)		RPD	
	9	10		
Hexavalent Chromium	0.00018	0.00018	0	

Analyte	Concentration (mg/L)		RPD	
	12	13		
Hexavalent Chromium	0.00063	0.00064	2	

LDC #: 46573C6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄⁻ was recalculated. Calibration date: 11/05/19

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	0.0026	0.9984	0.9982	Y
		s2	4	0.0039			
		s3	6	0.0066			
		s4	10	0.011			
		s5	20	0.0218			
CCV ₀ (11/10 e 11:34) Calibration verification	ClO ₄ ⁻	FOUND 10.000	TRUE 10.000		100	103	Y
CCV ₁ (10/25 e 12:37) Calibration verification	Cr6+	25.255	25.000		101	101	Y
CCV ₂ (10/25 e 14:32) Calibration verification	Cr6+	26.219	25.000		105	105	Y

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

LDC #: 4657306

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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	
B061765 LCS	Laboratory control sample 11/10 07:29	ClO4 ⁻	10.909 mg/L	10.000 mg/L	109	107	Y
18	Matrix spike sample 10/25 14:23	Cr6+	(SSR-SR) mg/L 0.020170	mg/L 0.020202	100	101	Y
20	Duplicate sample 10/25 14:13	Cr6+	mg/L 0.000519	mg/L 0.000531	2.29	2.87	Y

Comments: _____

NASA JPL, 4Q2019 - LDC# 46573

SDG: 1936293

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-4Q19	1936293-11	Total Recoverable Chromium	10/24/2019	0.65	Y	y	v j		3.0	0.50	ug/L
DUP-7-4Q19	1936293-06	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
DUP-7-4Q19	1936293-14	Total Recoverable Chromium	10/24/2019	4	Y	y	v	J	3.0	0.50	ug/L
EB-8-102319	1936293-07	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-10	1936293-09	Total Recoverable Chromium	10/24/2019	4.1	Y	y	v		3.0	0.50	ug/L
MW-15	1936293-12	Total Recoverable Chromium	10/24/2019	1.7	Y	y	v j	J	3.0	0.50	ug/L
MW-18-2	1936293-05	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-18-3	1936293-04	Total Recoverable Chromium	10/24/2019	1.5	Y	y	v j		3.0	0.50	ug/L
MW-18-4	1936293-03	Total Recoverable Chromium	10/24/2019	2.3	Y	y	v j		3.0	0.50	ug/L
MW-18-5	1936293-02	Total Recoverable Chromium	10/24/2019	3	Y	n	u		3.0	0.50	ug/L
MW-5	1936293-10	Total Recoverable Chromium	10/24/2019	0.74	Y	y	v j		3.0	0.50	ug/L
MW-6	1936293-08	Total Recoverable Chromium	10/24/2019	39	Y	y	v		3.0	0.50	ug/L
MW-7	1936293-15	Total Recoverable Chromium	10/24/2019	20	Y	y	v	J	3.0	0.50	ug/L
MW-8	1936293-13	Total Recoverable Chromium	10/24/2019	2.1	Y	y	v j	J	3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-4Q19	1936293-11	Hexavalent Chromium	10/25/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
DUP-7-4Q19	1936293-06	Hexavalent Chromium	10/25/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
DUP-7-4Q19	1936293-14	Hexavalent Chromium	10/25/2019	#####	Y	y	v		0.0002	0.0000	mg/L
EB-8-102319	1936293-07	Hexavalent Chromium	10/25/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-10	1936293-09	Hexavalent Chromium	10/25/2019	0.0011	Y	y	v		0.0002	0.0000	mg/L
MW-15	1936293-12	Hexavalent Chromium	10/25/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-18-2	1936293-05	Hexavalent Chromium	10/25/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L

SDG: 1936293

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1936293-04	Hexavalent Chromium	10/25/2019	0.0017	Y	y	v		0.0002	0.0000	mg/L
MW-18-4	1936293-03	Hexavalent Chromium	10/25/2019	0.0019	Y	y	v		0.0002	0.0000	mg/L
MW-18-5	1936293-02	Hexavalent Chromium	10/25/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-5	1936293-10	Hexavalent Chromium	10/25/2019	#####	Y	y	v j	U	0.0002	0.0000	mg/L
MW-6	1936293-08	Hexavalent Chromium	10/25/2019	0.0021	Y	y	v		0.0002	0.0000	mg/L
MW-7	1936293-15	Hexavalent Chromium	10/25/2019	0.001	Y	y	v		0.0002	0.0000	mg/L
MW-8	1936293-13	Hexavalent Chromium	10/25/2019	#####	Y	y	v		0.0002	0.0000	mg/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-7	1936293-15	Sulfate	10/24/2019	51	Y	y	v		1.0	0.20	mg/L
MW-7	1936293-15	Nitrate as N	10/24/2019	1.6	Y	y	v		0.10	0.042	mg/L
MW-7	1936293-15	Chloride	10/24/2019	79	Y	y	v		0.50	0.15	mg/L
MW-8	1936293-13	Chloride	10/24/2019	7.8	Y	y	v		0.50	0.15	mg/L
MW-8	1936293-13	Nitrate as N	10/24/2019	0.72	Y	y	v		0.10	0.042	mg/L
MW-8	1936293-13	Sulfate	10/24/2019	31	Y	y	v		1.0	0.20	mg/L

Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-4Q19	1936293-11	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
DUP-7-4Q19	1936293-06	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
DUP-7-4Q19	1936293-14	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
EB-8-102319	1936293-07	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
MW-10	1936293-09	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
MW-15	1936293-12	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
MW-18-2	1936293-05	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L

SDG: 1936293

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-18-3	1936293-04	Perchlorate	11/10/2019	2	Y	y	v j		4.0	0.76	ug/L
MW-18-4	1936293-03	Perchlorate	11/10/2019	16	Y	y	v		4.0	0.76	ug/L
MW-18-5	1936293-02	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
MW-5	1936293-10	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
MW-6	1936293-08	Perchlorate	11/10/2019	3.4	Y	y	v j		4.0	0.76	ug/L
MW-7	1936293-15	Perchlorate	11/10/2019	0.79	Y	y	v j		4.0	0.76	ug/L
MW-8	1936293-13	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	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-7	1936293-15	Nitrite as N	10/24/2019	0.05	Y	n	u		0.050	0.010	mg/L
MW-8	1936293-13	Nitrite as N	10/24/2019	0.05	Y	n	u		0.050	0.010	mg/L

Analytical Method		EPA-365.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1936293-15	ortho-Phosphate as P	10/24/2019	0.03	Y	y	v j		0.050	0.017	mg/L
MW-8	1936293-13	ortho-Phosphate as P	10/24/2019	0.05	Y	n	u		0.050	0.017	mg/L

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-4Q19	1936293-11	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
DUP-6-4Q19	1936293-11	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
DUP-6-4Q19	1936293-11	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
DUP-6-4Q19	1936293-11	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
DUP-6-4Q19	1936293-11	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-4Q19	1936293-11	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-6-4Q19	1936293-11	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L

SDG: 1936293

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-6-4Q19	1936293-11	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-4Q19	1936293-11	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-4Q19	1936293-11	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-4Q19	1936293-11	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-4Q19	1936293-11	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-4Q19	1936293-11	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
DUP-6-4Q19	1936293-11	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-4Q19	1936293-11	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-4Q19	1936293-11	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-6-4Q19	1936293-11	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-6-4Q19	1936293-11	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-4Q19	1936293-11	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-4Q19	1936293-11	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
DUP-6-4Q19	1936293-11	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1936293

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-6-4Q19	1936293-11	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-4Q19	1936293-11	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-6-4Q19	1936293-11	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-4Q19	1936293-11	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-6-4Q19	1936293-11	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
DUP-6-4Q19	1936293-11	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-4Q19	1936293-11	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-4Q19	1936293-11	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-4Q19	1936293-11	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-4Q19	1936293-11	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-6-4Q19	1936293-11	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-4Q19	1936293-11	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-4Q19	1936293-11	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
DUP-6-4Q19	1936293-11	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-6-4Q19	1936293-11	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-4Q19	1936293-11	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-4Q19	1936293-11	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-4Q19	1936293-11	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-6-4Q19	1936293-11	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-4Q19	1936293-11	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1936293

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-6-4Q19	1936293-11	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-6-4Q19	1936293-11	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-6-4Q19	1936293-11	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-6-4Q19	1936293-11	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-6-4Q19	1936293-11	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-6-4Q19	1936293-11	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-4Q19	1936293-11	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
DUP-6-4Q19	1936293-11	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
DUP-6-4Q19	1936293-11	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
DUP-6-4Q19	1936293-11	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
DUP-6-4Q19	1936293-11	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-4Q19	1936293-11	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-4Q19	1936293-11	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-4Q19	1936293-11	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-4Q19	1936293-11	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-4Q19	1936293-11	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-4Q19	1936293-11	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-4Q19	1936293-11	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-6-4Q19	1936293-11	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
DUP-6-4Q19	1936293-11	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-6-4Q19	1936293-11	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1936293

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-6-4Q19	1936293-11	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-4Q19	1936293-11	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-4Q19	1936293-11	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-4Q19	1936293-11	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-06	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
DUP-7-4Q19	1936293-06	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-4Q19	1936293-06	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-7-4Q19	1936293-06	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-4Q19	1936293-06	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-4Q19	1936293-06	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-06	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-06	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-7-4Q19	1936293-06	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-06	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-06	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-4Q19	1936293-06	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1936293

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-7-4Q19	1936293-06	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-06	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-4Q19	1936293-06	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-4Q19	1936293-06	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-4Q19	1936293-06	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-7-4Q19	1936293-06	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-7-4Q19	1936293-06	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-06	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-7-4Q19	1936293-06	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-7-4Q19	1936293-06	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-4Q19	1936293-06	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-7-4Q19	1936293-06	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-7-4Q19	1936293-06	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-7-4Q19	1936293-06	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-7-4Q19	1936293-06	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-4Q19	1936293-06	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
DUP-7-4Q19	1936293-06	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L

SDG: 1936293

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-7-4Q19	1936293-06	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-7-4Q19	1936293-06	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-06	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-06	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-06	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-06	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-06	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-06	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-7-4Q19	1936293-06	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-7-4Q19	1936293-06	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
DUP-7-4Q19	1936293-06	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
DUP-7-4Q19	1936293-06	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-7-4Q19	1936293-06	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-7-4Q19	1936293-06	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-7-4Q19	1936293-06	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-7-4Q19	1936293-06	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-7-4Q19	1936293-06	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-06	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-06	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-06	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-7-4Q19	1936293-06	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-7-4Q19	1936293-06	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-06	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1936293

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-7-4Q19	1936293-06	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-06	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-06	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
DUP-7-4Q19	1936293-06	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-06	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
DUP-7-4Q19	1936293-06	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-7-4Q19	1936293-06	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-06	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-06	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-06	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-4Q19	1936293-06	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
DUP-7-4Q19	1936293-06	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
DUP-7-4Q19	1936293-06	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-7-4Q19	1936293-06	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-06	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-4Q19	1936293-14	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-7-4Q19	1936293-14	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-4Q19	1936293-14	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-14	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936293

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-7-4Q19	1936293-14	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-14	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-14	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-4Q19	1936293-14	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-7-4Q19	1936293-14	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-14	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-7-4Q19	1936293-14	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-7-4Q19	1936293-14	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-4Q19	1936293-14	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-7-4Q19	1936293-14	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
DUP-7-4Q19	1936293-14	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-4Q19	1936293-14	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-7-4Q19	1936293-14	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-14	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-14	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1936293

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-7-4Q19	1936293-14	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-14	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-7-4Q19	1936293-14	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-7-4Q19	1936293-14	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-14	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-7-4Q19	1936293-14	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-7-4Q19	1936293-14	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-7-4Q19	1936293-14	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-7-4Q19	1936293-14	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
DUP-7-4Q19	1936293-14	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-7-4Q19	1936293-14	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-7-4Q19	1936293-14	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-7-4Q19	1936293-14	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-7-4Q19	1936293-14	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
DUP-7-4Q19	1936293-14	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
DUP-7-4Q19	1936293-14	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-7-4Q19	1936293-14	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
DUP-7-4Q19	1936293-14	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-7-4Q19	1936293-14	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
DUP-7-4Q19	1936293-14	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-4Q19	1936293-14	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
DUP-7-4Q19	1936293-14	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1936293

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-7-4Q19	1936293-14	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-14	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-14	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-14	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-14	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-14	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-14	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
DUP-7-4Q19	1936293-14	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-7-4Q19	1936293-14	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-7-4Q19	1936293-14	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-4Q19	1936293-14	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
DUP-7-4Q19	1936293-14	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-7-4Q19	1936293-14	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-7-4Q19	1936293-14	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-7-4Q19	1936293-14	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-7-4Q19	1936293-14	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-7-4Q19	1936293-14	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-7-4Q19	1936293-14	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-7-4Q19	1936293-14	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
DUP-7-4Q19	1936293-14	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-7-4Q19	1936293-14	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936293

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-7-4Q19	1936293-14	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-7-4Q19	1936293-14	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-7-4Q19	1936293-14	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
DUP-7-4Q19	1936293-14	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-102319	1936293-07	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
EB-8-102319	1936293-07	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
EB-8-102319	1936293-07	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
EB-8-102319	1936293-07	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
EB-8-102319	1936293-07	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-8-102319	1936293-07	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-102319	1936293-07	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
EB-8-102319	1936293-07	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
EB-8-102319	1936293-07	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
EB-8-102319	1936293-07	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
EB-8-102319	1936293-07	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
EB-8-102319	1936293-07	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
EB-8-102319	1936293-07	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
EB-8-102319	1936293-07	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-102319	1936293-07	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-102319	1936293-07	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-102319	1936293-07	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-102319	1936293-07	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1936293

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-102319	1936293-07	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-102319	1936293-07	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-8-102319	1936293-07	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-102319	1936293-07	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-8-102319	1936293-07	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-102319	1936293-07	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-102319	1936293-07	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-102319	1936293-07	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-102319	1936293-07	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-102319	1936293-07	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-8-102319	1936293-07	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-8-102319	1936293-07	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
EB-8-102319	1936293-07	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-102319	1936293-07	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-8-102319	1936293-07	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-102319	1936293-07	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1936293

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-102319	1936293-07	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-102319	1936293-07	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-102319	1936293-07	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-8-102319	1936293-07	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-8-102319	1936293-07	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
EB-8-102319	1936293-07	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-8-102319	1936293-07	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-8-102319	1936293-07	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-102319	1936293-07	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-102319	1936293-07	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
EB-8-102319	1936293-07	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
EB-8-102319	1936293-07	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-102319	1936293-07	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
EB-8-102319	1936293-07	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-8-102319	1936293-07	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-102319	1936293-07	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-102319	1936293-07	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-102319	1936293-07	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
EB-8-102319	1936293-07	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
EB-8-102319	1936293-07	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
EB-8-102319	1936293-07	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-102319	1936293-07	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1936293

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-102319	1936293-07	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
EB-8-102319	1936293-07	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
EB-8-102319	1936293-07	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-102319	1936293-07	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-8-102319	1936293-07	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
EB-8-102319	1936293-07	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
EB-8-102319	1936293-07	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
EB-8-102319	1936293-07	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-102319	1936293-07	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-8-102319	1936293-07	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-102319	1936293-07	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-102319	1936293-07	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-8-102319	1936293-07	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-102319	1936293-07	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-102319	1936293-07	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-102319	1936293-07	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1936293-09	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-10	1936293-09	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-10	1936293-09	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-10	1936293-09	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-10	1936293-09	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-10	1936293-09	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-10	1936293-09	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-10	1936293-09	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L

SDG: 1936293

Analytical 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	1936293-09	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-10	1936293-09	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1936293-09	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-10	1936293-09	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-10	1936293-09	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-10	1936293-09	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-10	1936293-09	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1936293-09	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-10	1936293-09	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1936293-09	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1936293-09	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1936293-09	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1936293-09	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1936293-09	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1936293-09	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1936293-09	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1936293-09	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1936293

Analytical 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	1936293-09	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1936293-09	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1936293-09	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-10	1936293-09	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-10	1936293-09	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1936293-09	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1936293-09	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-10	1936293-09	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-10	1936293-09	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1936293-09	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-10	1936293-09	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1936293-09	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1936293-09	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1936293-09	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1936293-09	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1936293-09	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-10	1936293-09	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L

SDG: 1936293

Analytical 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	1936293-09	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1936293-09	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-10	1936293-09	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-10	1936293-09	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-10	1936293-09	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-10	1936293-09	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1936293-09	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-10	1936293-09	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-10	1936293-09	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-10	1936293-09	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1936293-09	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-10	1936293-09	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1936293-09	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1936293-09	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1936293-09	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-10	1936293-09	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1936293-09	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-10	1936293-09	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1936293-09	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1936293-09	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1936293-09	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1936293

Analytical 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	1936293-09	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1936293-09	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1936293-09	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-15	1936293-12	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1936293-12	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-15	1936293-12	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-15	1936293-12	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-15	1936293-12	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-15	1936293-12	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1936293-12	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-15	1936293-12	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-15	1936293-12	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-15	1936293-12	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-15	1936293-12	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1936293-12	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1936293-12	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-15	1936293-12	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1936293-12	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-15	1936293-12	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1936293

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-15	1936293-12	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-15	1936293-12	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-15	1936293-12	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-15	1936293-12	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-15	1936293-12	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1936293-12	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-15	1936293-12	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-15	1936293-12	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-15	1936293-12	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-15	1936293-12	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-15	1936293-12	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-15	1936293-12	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-15	1936293-12	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-15	1936293-12	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-15	1936293-12	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1936293-12	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-15	1936293-12	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1936293-12	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-15	1936293-12	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-15	1936293-12	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-15	1936293-12	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L

SDG: 1936293

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-15	1936293-12	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1936293-12	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-15	1936293-12	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-15	1936293-12	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-15	1936293-12	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-15	1936293-12	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-15	1936293-12	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-15	1936293-12	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-15	1936293-12	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-15	1936293-12	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-15	1936293-12	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-15	1936293-12	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-15	1936293-12	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-15	1936293-12	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-15	1936293-12	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-15	1936293-12	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-15	1936293-12	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-15	1936293-12	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1936293-12	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1936293-12	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-15	1936293-12	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1936293

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-15	1936293-12	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-15	1936293-12	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1936293-12	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-15	1936293-12	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-15	1936293-12	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1936293-12	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1936293-12	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-15	1936293-12	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1936293-12	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-15	1936293-12	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1936293-12	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-15	1936293-12	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-15	1936293-12	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-15	1936293-12	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-15	1936293-12	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1936293-05	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-18-2	1936293-05	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-18-2	1936293-05	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-18-2	1936293-05	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-2	1936293-05	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-18-2	1936293-05	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-18-2	1936293-05	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-18-2	1936293-05	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1936293

Analytical 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	1936293-05	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1936293-05	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-18-2	1936293-05	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1936293-05	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1936293-05	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1936293-05	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-2	1936293-05	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1936293-05	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1936293-05	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-2	1936293-05	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-18-2	1936293-05	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-2	1936293-05	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1936293-05	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-18-2	1936293-05	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-18-2	1936293-05	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-18-2	1936293-05	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-18-2	1936293-05	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-18-2	1936293-05	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1936293-05	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-18-2	1936293-05	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-18-2	1936293-05	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1936293

Analytical 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	1936293-05	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1936293-05	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-18-2	1936293-05	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1936293-05	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1936293-05	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-2	1936293-05	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-18-2	1936293-05	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-2	1936293-05	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1936293-05	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-2	1936293-05	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-2	1936293-05	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1936293-05	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-18-2	1936293-05	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1936293-05	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-2	1936293-05	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936293

Analytical 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	1936293-05	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-18-2	1936293-05	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-18-2	1936293-05	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-18-2	1936293-05	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-18-2	1936293-05	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-18-2	1936293-05	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-18-2	1936293-05	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1936293-05	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-2	1936293-05	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-2	1936293-05	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-2	1936293-05	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1936293-05	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-2	1936293-05	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-2	1936293-05	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-2	1936293-05	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-2	1936293-05	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-2	1936293-05	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-2	1936293-05	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-2	1936293-05	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936293

Analytical 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	1936293-05	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-2	1936293-05	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1936293-04	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1936293-04	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1936293-04	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1936293-04	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1936293-04	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-18-3	1936293-04	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-18-3	1936293-04	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-18-3	1936293-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1936293-04	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-18-3	1936293-04	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1936293-04	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1936293-04	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-18-3	1936293-04	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1936293-04	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1936293-04	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-18-3	1936293-04	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-18-3	1936293-04	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1936293-04	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1936293-04	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1936293

Analytical 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	1936293-04	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1936293-04	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1936293-04	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-3	1936293-04	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1936293-04	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1936293-04	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1936293-04	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1936293-04	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-3	1936293-04	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1936293-04	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-3	1936293-04	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-18-3	1936293-04	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-18-3	1936293-04	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-18-3	1936293-04	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-18-3	1936293-04	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1936293-04	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-3	1936293-04	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1936293-04	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L

SDG: 1936293

Analytical 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	1936293-04	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1936293-04	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1936293-04	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1936293-04	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-3	1936293-04	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1936293-04	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-18-3	1936293-04	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-3	1936293-04	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-3	1936293-04	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-3	1936293-04	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-18-3	1936293-04	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-18-3	1936293-04	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1936293-04	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-18-3	1936293-04	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-18-3	1936293-04	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-18-3	1936293-04	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1936293-04	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-3	1936293-04	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-18-3	1936293-04	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-18-3	1936293-04	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-3	1936293-04	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-18-3	1936293-04	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-3	1936293-04	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L

SDG: 1936293

Analytical 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	1936293-04	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-18-3	1936293-04	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-3	1936293-04	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-3	1936293-04	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-3	1936293-04	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-3	1936293-04	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-3	1936293-04	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-3	1936293-04	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-3	1936293-04	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-3	1936293-04	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-3	1936293-04	Carbon tetrachloride	10/28/2019	0.18	Y	y	v j		0.50	0.17	ug/L
MW-18-3	1936293-04	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-18-4	1936293-03	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1936293-03	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-4	1936293-03	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1936293-03	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1936293-03	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-4	1936293-03	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-4	1936293-03	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1936293-03	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936293

Analytical 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	1936293-03	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-18-4	1936293-03	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1936293-03	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-18-4	1936293-03	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-18-4	1936293-03	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-18-4	1936293-03	Chloroform	10/28/2019	0.93	Y	y	v		0.50	0.14	ug/L
MW-18-4	1936293-03	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-18-4	1936293-03	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1936293-03	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1936293-03	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-18-4	1936293-03	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-18-4	1936293-03	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-18-4	1936293-03	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-4	1936293-03	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-18-4	1936293-03	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-18-4	1936293-03	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-4	1936293-03	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-18-4	1936293-03	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1936293-03	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1936293-03	Carbon tetrachloride	10/28/2019	2.2	Y	y	v		0.50	0.17	ug/L
MW-18-4	1936293-03	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1936293-03	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-4	1936293-03	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1936293

Analytical 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	1936293-03	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-18-4	1936293-03	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1936293-03	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-4	1936293-03	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1936293-03	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1936293-03	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1936293-03	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-4	1936293-03	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1936293-03	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-4	1936293-03	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-18-4	1936293-03	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1936293-03	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-4	1936293-03	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-4	1936293-03	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-18-4	1936293-03	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-18-4	1936293-03	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1936293

Analytical 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	1936293-03	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-18-4	1936293-03	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-18-4	1936293-03	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-18-4	1936293-03	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-18-4	1936293-03	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-18-4	1936293-03	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-18-4	1936293-03	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-18-4	1936293-03	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-18-4	1936293-03	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-4	1936293-03	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1936293-03	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-18-4	1936293-03	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1936293-03	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1936293-03	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-18-4	1936293-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1936293-03	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-4	1936293-03	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-4	1936293-03	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-4	1936293-03	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-4	1936293-03	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1936293-03	Tetrachloroethene	10/28/2019	0.67	Y	y	v		0.50	0.23	ug/L
MW-18-4	1936293-03	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-4	1936293-03	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-4	1936293-03	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-4	1936293-03	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1936293

Analytical 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	1936293-03	Trichloroethene	10/28/2019	1.1	Y	y	v		0.50	0.19	ug/L
MW-18-5	1936293-02	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-5	1936293-02	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1936293-02	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1936293-02	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1936293-02	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1936293-02	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-18-5	1936293-02	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1936293-02	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-18-5	1936293-02	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1936293-02	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-18-5	1936293-02	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-18-5	1936293-02	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1936293-02	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-18-5	1936293-02	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-18-5	1936293-02	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-18-5	1936293-02	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1936293-02	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L

SDG: 1936293

Analytical 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	1936293-02	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-18-5	1936293-02	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-18-5	1936293-02	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1936293-02	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1936293-02	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-18-5	1936293-02	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-18-5	1936293-02	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-18-5	1936293-02	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-18-5	1936293-02	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1936293-02	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-18-5	1936293-02	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-18-5	1936293-02	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1936293-02	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1936293-02	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1936293-02	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-18-5	1936293-02	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-18-5	1936293-02	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936293

Analytical 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	1936293-02	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-18-5	1936293-02	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-18-5	1936293-02	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1936293-02	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1936293-02	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1936293-02	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-18-5	1936293-02	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-18-5	1936293-02	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-18-5	1936293-02	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-18-5	1936293-02	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-18-5	1936293-02	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-18-5	1936293-02	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-18-5	1936293-02	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-18-5	1936293-02	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-18-5	1936293-02	Styrene	10/28/2019	0.12	Y	y	v j		0.50	0.12	ug/L
MW-18-5	1936293-02	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-18-5	1936293-02	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-18-5	1936293-02	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1936293-02	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-18-5	1936293-02	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-18-5	1936293-02	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936293

Analytical 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	1936293-02	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1936293-02	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-18-5	1936293-02	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-18-5	1936293-02	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-18-5	1936293-02	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-18-5	1936293-02	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-18-5	1936293-02	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-18-5	1936293-02	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-18-5	1936293-02	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-18-5	1936293-02	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-18-5	1936293-02	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-18-5	1936293-02	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1936293-10	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-5	1936293-10	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-5	1936293-10	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-5	1936293-10	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1936293-10	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-5	1936293-10	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-5	1936293-10	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-5	1936293-10	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1936293-10	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1936293-10	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936293

Analytical 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	1936293-10	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-5	1936293-10	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1936293-10	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1936293-10	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1936293-10	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1936293-10	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1936293-10	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-5	1936293-10	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-5	1936293-10	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-5	1936293-10	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-5	1936293-10	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-5	1936293-10	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-5	1936293-10	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-5	1936293-10	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1936293-10	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-5	1936293-10	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-5	1936293-10	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-5	1936293-10	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-5	1936293-10	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-5	1936293-10	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-5	1936293-10	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L

SDG: 1936293

Analytical 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	1936293-10	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-5	1936293-10	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-5	1936293-10	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-5	1936293-10	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1936293-10	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-5	1936293-10	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1936293-10	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-5	1936293-10	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1936293-10	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1936293-10	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-5	1936293-10	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1936293-10	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-5	1936293-10	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1936293-10	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1936293-10	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1936293-10	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1936293-10	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-5	1936293-10	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-5	1936293-10	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L

SDG: 1936293

Analytical 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	1936293-10	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1936293-10	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1936293-10	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1936293-10	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1936293-10	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1936293-10	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1936293-10	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1936293-10	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1936293-10	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1936293-10	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1936293-10	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1936293-10	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1936293-10	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1936293-10	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1936293-10	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1936293-10	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1936293-10	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1936293

Analytical 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	1936293-08	Trichloroethene	10/28/2019	2.6	Y	y	v		0.50	0.19	ug/L
MW-6	1936293-08	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-6	1936293-08	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1936293-08	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-6	1936293-08	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-6	1936293-08	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-6	1936293-08	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1936293-08	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1936293-08	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-6	1936293-08	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-6	1936293-08	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1936293-08	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1936293-08	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1936293-08	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	Tetrachloroethene	10/28/2019	0.53	Y	y	v		0.50	0.23	ug/L
MW-6	1936293-08	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1936293-08	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1936293-08	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-6	1936293-08	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1936293-08	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L

SDG: 1936293

Analytical 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	1936293-08	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-6	1936293-08	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-6	1936293-08	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-6	1936293-08	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-6	1936293-08	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-6	1936293-08	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1936293-08	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-6	1936293-08	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-6	1936293-08	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-6	1936293-08	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-6	1936293-08	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-6	1936293-08	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-6	1936293-08	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-6	1936293-08	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-6	1936293-08	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-6	1936293-08	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-6	1936293-08	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1936293-08	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-6	1936293-08	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-6	1936293-08	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1936293-08	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-6	1936293-08	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1936293-08	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-6	1936293-08	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L

SDG: 1936293

Analytical 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	1936293-08	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-6	1936293-08	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1936293-08	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1936293-08	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1936293-08	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1936293-08	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1936293-08	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-6	1936293-08	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-6	1936293-08	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1936293-08	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1936293-08	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-6	1936293-08	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1936293-08	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	Chloroform	10/28/2019	0.54	Y	y	v		0.50	0.14	ug/L
MW-6	1936293-08	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1936293-08	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1936293-08	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1936293

Analytical 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	1936293-08	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1936293-08	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1936293-08	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1936293-08	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1936293-08	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1936293-08	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1936293-08	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1936293-08	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1936293-08	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-7	1936293-15	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-7	1936293-15	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1936293-15	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
MW-7	1936293-15	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1936293-15	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1936293-15	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-7	1936293-15	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1936293-15	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1936293-15	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1936293-15	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936293

Analytical 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	1936293-15	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1936293-15	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1936293-15	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1936293-15	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-7	1936293-15	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1936293-15	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1936293-15	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1936293-15	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1936293-15	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1936293-15	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1936293-15	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1936293-15	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-7	1936293-15	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1936293-15	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-7	1936293-15	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-7	1936293-15	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-7	1936293-15	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L

SDG: 1936293

Analytical 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	1936293-15	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-7	1936293-15	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-7	1936293-15	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-7	1936293-15	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-7	1936293-15	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-7	1936293-15	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-7	1936293-15	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1936293-15	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1936293-15	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-7	1936293-15	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-7	1936293-15	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-7	1936293-15	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1936293-15	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
MW-7	1936293-15	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-7	1936293-15	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-7	1936293-15	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-7	1936293-15	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1936293-15	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-7	1936293-15	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-7	1936293-15	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1936293-15	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1936293

Analytical 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	1936293-15	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-7	1936293-15	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-7	1936293-15	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1936293-15	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1936293-15	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1936293-15	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1936293-15	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1936293-15	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1936293-15	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1936293-15	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1936293-15	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1936293-15	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1936293-15	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-7	1936293-15	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1936293-15	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-7	1936293-15	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1936293-15	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1936293-15	Chloroform	10/28/2019	3.8	Y	y	v		0.50	0.14	ug/L
MW-7	1936293-15	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-7	1936293-15	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L

SDG: 1936293

Analytical 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	1936293-13	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
MW-8	1936293-13	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
MW-8	1936293-13	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1936293-13	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1936293-13	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
MW-8	1936293-13	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
MW-8	1936293-13	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
MW-8	1936293-13	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1936293-13	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1936293-13	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
MW-8	1936293-13	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
MW-8	1936293-13	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-8	1936293-13	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1936293-13	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
MW-8	1936293-13	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
MW-8	1936293-13	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L
MW-8	1936293-13	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
MW-8	1936293-13	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
MW-8	1936293-13	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
MW-8	1936293-13	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
MW-8	1936293-13	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
MW-8	1936293-13	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L

SDG: 1936293

Analytical 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	1936293-13	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
MW-8	1936293-13	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1936293-13	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-8	1936293-13	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
MW-8	1936293-13	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
MW-8	1936293-13	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1936293-13	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
MW-8	1936293-13	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1936293-13	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1936293-13	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1936293-13	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
MW-8	1936293-13	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
MW-8	1936293-13	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1936293-13	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1936293-13	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1936293-13	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
MW-8	1936293-13	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1936293-13	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-8	1936293-13	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L

SDG: 1936293

Analytical 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	1936293-13	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1936293-13	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1936293-13	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1936293-13	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-8	1936293-13	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-8	1936293-13	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1936293-13	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1936293-13	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1936293-13	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1936293-13	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1936293-13	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1936293-13	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1936293-13	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1936293-13	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1936293-13	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1936293

Analytical 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	1936293-13	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1936293-13	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1936293-13	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1936293-13	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-8	1936293-13	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1936293-13	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1936293-13	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1936293-13	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1936293-13	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-102319	1936293-01	Acrylonitrile	10/28/2019	5	Y	n	u		5.0	1.5	ug/L
TB-8-102319	1936293-01	Trichlorofluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	trans-1,4-Dichloro-2-butene	10/28/2019	5	Y	n	u		5.0	1.8	ug/L
TB-8-102319	1936293-01	Carbon disulfide	10/28/2019	1	Y	n	u		1.0	0.48	ug/L
TB-8-102319	1936293-01	t-Butyl alcohol	10/28/2019	10	Y	n	u		10	9.4	ug/L
TB-8-102319	1936293-01	t-Amyl Methyl ether	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-102319	1936293-01	Allyl chloride	10/28/2019	5	Y	n	u		5.0	0.47	ug/L
TB-8-102319	1936293-01	Acetone	10/28/2019	10	Y	n	u		10	6.6	ug/L
TB-8-102319	1936293-01	1,3,5-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	1,2,4-Trimethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	1,1,1,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-102319	1936293-01	1,2,3-Trichloropropane	10/28/2019	1	Y	n	u		1.0	0.78	ug/L
TB-8-102319	1936293-01	Ethyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-8-102319	1936293-01	Trichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936293

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-8-102319	1936293-01	1,1,2-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-102319	1936293-01	1,1,1-Trichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-102319	1936293-01	1,2,4-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	1,2,3-Trichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-102319	1936293-01	Toluene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	Tetrachloroethene	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-102319	1936293-01	Vinyl chloride	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-102319	1936293-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-102319	1936293-01	Propionitrile	10/28/2019	20	Y	n	u		20	6.2	ug/L
TB-8-102319	1936293-01	Benzene	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-102319	1936293-01	2-Nitropropane	10/28/2019	0	Y	y	v				ug/L
TB-8-102319	1936293-01	Nitrobenzene	10/28/2019	0	Y	y	v				ug/L
TB-8-102319	1936293-01	Methyl acrylate	10/28/2019	0	Y	y	v				ug/L
TB-8-102319	1936293-01	1,1-Dichloropropanone	10/28/2019	0	Y	y	v				ug/L
TB-8-102319	1936293-01	1-Chlorobutane	10/28/2019	0	Y	y	v				ug/L
TB-8-102319	1936293-01	Chloroacetonitrile	10/28/2019	0	Y	y	v				ug/L
TB-8-102319	1936293-01	o-Xylene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-102319	1936293-01	Diethyl ether	10/28/2019	2	Y	n	u		2.0	0.33	ug/L
TB-8-102319	1936293-01	Tetrahydrofuran	10/28/2019	20	Y	n	u		20	5.2	ug/L
TB-8-102319	1936293-01	Ethyl methacrylate	10/28/2019	4	Y	n	u		4.0	1.3	ug/L
TB-8-102319	1936293-01	Pentachloroethane	10/28/2019	2	Y	n	u		2.0	0.63	ug/L
TB-8-102319	1936293-01	Methyl methacrylate	10/28/2019	5	Y	n	u		5.0	1.2	ug/L
TB-8-102319	1936293-01	Methyl isobutyl ketone	10/28/2019	10	Y	n	u		10	2.4	ug/L
TB-8-102319	1936293-01	Methyl iodide	10/28/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-8-102319	1936293-01	Methyl ethyl ketone	10/28/2019	10	Y	n	u		10	3.3	ug/L

SDG: 1936293

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-8-102319	1936293-01	Methacrylonitrile	10/28/2019	10	Y	n	u		10	2.3	ug/L
TB-8-102319	1936293-01	2-Hexanone	10/28/2019	10	Y	n	u		10	5.0	ug/L
TB-8-102319	1936293-01	Hexachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-102319	1936293-01	Styrene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-102319	1936293-01	p- & m-Xylenes	10/28/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-8-102319	1936293-01	Chlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	1,2-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-102319	1936293-01	Dibromomethane	10/28/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-102319	1936293-01	1,2-Dibromoethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-102319	1936293-01	1,2-Dibromo-3-chloropropane	10/28/2019	1	Y	n	u		1.0	0.89	ug/L
TB-8-102319	1936293-01	Dibromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-102319	1936293-01	4-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-8-102319	1936293-01	2-Chlorotoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	Chloromethane	10/28/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-102319	1936293-01	1,1,2,2-Tetrachloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	Chloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	Dichlorodifluoromethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	Carbon tetrachloride	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	tert-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-102319	1936293-01	sec-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-102319	1936293-01	n-Butylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	Bromomethane	10/28/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-8-102319	1936293-01	Bromoform	10/28/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-8-102319	1936293-01	Bromodichloromethane	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-102319	1936293-01	Bromochloromethane	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936293

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-8-102319	1936293-01	Chloroform	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	1,1-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-102319	1936293-01	n-Propylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-102319	1936293-01	Naphthalene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-102319	1936293-01	Methyl t-butyl ether	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	Methylene chloride	10/28/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-102319	1936293-01	p-Isopropyltoluene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	Isopropylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	Hexachlorobutadiene	10/28/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-102319	1936293-01	Ethylbenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	1,3-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-102319	1936293-01	cis-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-102319	1936293-01	1,4-Dichlorobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	2,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-102319	1936293-01	1,3-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-102319	1936293-01	1,2-Dichloropropane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	trans-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	cis-1,2-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-102319	1936293-01	1,1-Dichloroethene	10/28/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-102319	1936293-01	1,2-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-102319	1936293-01	1,1-Dichloroethane	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	Bromobenzene	10/28/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-102319	1936293-01	trans-1,3-Dichloropropene	10/28/2019	0.5	Y	n	u		0.50	0.13	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 12, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936445

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-9-1024119	1936445-01	Water	10/24/19
MW-13	1936445-02	Water	10/24/19
MW-16	1936445-03	Water	10/24/19
MW-1**	1936445-04**	Water	10/24/19
MW-9**	1936445-05**	Water	10/24/19
MW-1MS	1936445-04MS	Water	10/24/19
MW-1MSD	1936445-04MSD	Water	10/24/19
MW-9MS	1936445-05MS	Water	10/24/19
MW-9MSD	1936445-05MSD	Water	10/24/19

**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.

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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/29/19	Bromomethane Methyl iodide	50.6 50.0	All samples in SDG 1936445	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-9-1024119 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

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Volatiles - Data Qualification Summary - SDG 1936445

Sample	Compound	Flag	A or P	Reason
TB-9-1024119 MW-13 MW-16 MW-1** MW-9**	Bromomethane Methyl iodide	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 4Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1936445

No Sample Data Qualified in this SDG

LDC #: 46573D1a

VALIDATION COMPLETENESS WORKSHEET

Date: 12/1/19

SDG #: 1936445

Level III/IV

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 A	KAL \leq 20% $\gamma\gamma$ ICV \leq 30%
IV.	Continuing calibration	SW	CV \leq 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	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

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

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-9-1024119	1936445-01	Water	10/24/19
2	MW-13	1936445-02	Water	10/24/19
3	MW-16	1936445-03	Water	10/24/19
4	MW-1**	1936445-04**	Water	10/24/19
5	MW-9**	1936445-05**	Water	10/24/19
6	MW-1MS	1936445-04MS	Water	10/24/19
7	MW-1MSD	1936445-04MSD	Water	10/24/19
8	MW-9MS	1936445-05MS	Water	10/24/19
9	MW-9MSD	1936445-05MSD	Water	10/24/19
10				
11				

Notes:

1	B060690-BK 1				
2	B060691-1				

LDC #: 46573 D1a

VALIDATION FINDINGS CHECKLIST

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

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				
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?		/		
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				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in 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 per analytical batch?	/			
Were the LCS percent recoveries (%R) within 70-130%?	/			

Validation Area	Yes	No	NA	Findings/Comments
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. Chlorodibromomethane	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 #: 46573D1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	10/04/19	Chloroform (PFB)	0.721514	0.721514	0.692444	0.692444	6.702	6.702
			Trichloroethene (CBZ)	0.338405	0.338405	0.345404	0.345404	4.046	4.046
			1,1,2,2-TCA (DFB)	0.525904	0.525904	0.515984	0.515984	14.577	14.577

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	29OCT02 MS V5	10/29/19	Chloroform (PFB)	0.692444	0.731257	0.731257	5.6	5.6
			Trichloroethene (CBZ)	0.345404	0.328302	0.328302	5.0	5.0
			1,1,2,2-TCA (DFB)	0.515984	0.577980	0.577980	12.0	12.0

LDC #: 46573D1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	10.29	103	183	0
Bromofluorobenzene	↓	16.34	103	103	↓
1,2-Dichlorobenzene-d4	↓	10.34	103	103	↓
Dibromofluoromethane					

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

LDC #: 46 573 Dia

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: 8/9

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	24.92	26.05	99.7	99.7	104	104	4.43	4.4
Trichloroethene	↓	↓	↓	25.23	26.05	101	101	104	104	3.2	3.2
Benzene	↓	↓	↓	23.44	24.40	93.8	93.8	97.6	97.6	4.01	4.0
Toluene	↓	↓	↓	22.72	22.73	90.9	90.9	89.3	89.3	1.77	1.7
Chlorobenzene	↓	↓	↓	24.05	24.48	96.2	96.2	97.9	97.9	1.77	1.8

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 #: 96 573 D1a

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: B060691 - 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	24.89	NA	99.6	99.6				
Trichloroethene	↓	↓	25.47	↓	102	102				
Benzene	↓	↓	22.91	↓	91.6	91.6				
Toluene	↓	↓	22.19	↓	88.8	88.8				
Chlorobenzene	↓	↓	23.93	↓	95.7	95.7				

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, 4Q2019

LDC Report Date: December 11, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936445

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-16	1936445-03	Water	10/24/19
MW-1**	1936445-04**	Water	10/24/19
MW-9**	1936445-05**	Water	10/24/19
MW-1MS	1936445-04MS	Water	10/24/19
MW-1MSD	1936445-04MSD	Water	10/24/19
MW-1DUP	1936445-04DUP	Water	10/24/19
MW-9MS	1936445-05MS	Water	10/24/19
MW-9MSD	1936445-05MSD	Water	10/24/19
MW-9DUP	1936445-05DUP	Water	10/24/19

**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.

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 with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-9MS/MSD (MW-9**)	Chromium	134 (70-130)	150 (70-130)	J (all detects)	A

Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

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

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

Due to MS/MSD %R, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 4Q2019
Chromium - Data Qualification Summary - SDG 1936445

Sample	Analyte	Flag	A or P	Reason
MW-9**	Chromium	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)

NASA JPL, 4Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1936445

No Sample Data Qualified in this SDG

LDC #: 46573D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 11/6/19

SDG #: 1936445

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

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

METHOD: Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	A	
VI.	Field Blanks	N	
VII.	Matrix Spike/Matrix Spike Duplicates	SW	(4,5), (7,8)
VIII.	Duplicate sample analysis	A	6,9
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	reviewed for level IV only
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-16	1936445-03	Water	10/24/19
2	MW-1**	1936445-04**	Water	10/24/19
3	MW-9**	1936445-05**	Water	10/24/19
4	MW-1MS	1936445-04MS	Water	10/24/19
5	MW-1MSD	1936445-04MSD	Water	10/24/19
6	MW-1DUP	1936445-04DUP	Water	10/24/19
7	MW-9MS	1936445-05MS	Water	10/24/19
8	MW-9MSD	1936445-05MSD	Water	10/24/19
9	MW-9DUP	1936445-05DUP	Water	10/24/19
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 $\leq 5\%$?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%			✓	
Were all initial calibration correlation coefficients within limits as specified by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

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

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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

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

- Y N N/A Was a 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 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
	7/8	W	Cr	134 (70-130)	150 (70-130)		3	Jdet/A (detect)

Comments: _____

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) 10/28 @ 09:01	Cr	51.025	50.000	102	102	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVK	ICP/MS (Continuing calibration) 10/28 @ 16:13	Cr	41.876	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	114.904	114.925	± 0.1 AMU	NA	Y
	%RSD	24.0	83154.1	≤ 5% RSD	0.8	Y

Comments:

LDC #: 46573D4a

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	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 (B060575)	Laboratory control sample 10/28 e 15:46	Cr	40.674	40.000	102	102	Y
7	Matrix spike 10/28 e 16:33	Cr	(SSR-SR) 53.75	40.000	134	134	Y
718	Duplicate 10/28 e 16:36	Cr	139.595	133.354	4.57	4.57	Y
2	Post digestion spike 10/28 e 16:00	Cr	39.158	40.000	97.9	97.9	Y
	ICP serial dilution 10/28 e 16:31	Cr	82.39	79.604	3.50	3.50	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 4Q2019

LDC Report Date: December 11, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1936445

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-13	1936445-02	Water	10/24/19
MW-16	1936445-03	Water	10/24/19
MW-1**	1936445-04**	Water	10/24/19
MW-9**	1936445-05**	Water	10/24/19
MW-13MS	1936445-02MS	Water	10/24/19
MW-13MSD	1936445-02MSD	Water	10/24/19
MW-13DUP	1936445-02DUP	Water	10/24/19
MW-1MS	1936445-04MS	Water	10/24/19
MW-1MSD	1936445-04MSD	Water	10/24/19
MW-1DUP	1936445-04DUP	Water	10/24/19
MW-9MS	1936445-05MS	Water	10/24/19
MW-9MSD	1936445-05MSD	Water	10/24/19
MW-9DUP	1936445-05DUP	Water	10/24/19

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

Nitrite as Nitrogen by EPA Method 353.2

Orthophosphate as Phosphorus by EPA Method 365.1

Hexavalent Chromium by EPA Method 218.6

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	Chloride	0.163 mg/L	MW-13 MW-16

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

V. Field Blanks

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. 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.

NASA JPL, 4Q2019
Wet Chemistry - Data Qualification Summary - SDG 1936445

No Sample Data Qualified in this SDG

NASA JPL, 4Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1936445

No Sample Data Qualified in this SDG

LDC #: 46573D6

VALIDATION COMPLETENESS WORKSHEET

Date: 12/6/19

SDG #: 1936445

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

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

METHOD: (Analyte) Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrate-N (EPA Method 353.2), ortho-Phosphate-P (EPA Method 365.1), Hexavalent Chromium (EPA Method 218.6), 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	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	(5,6), (8,9), (11,12)
VII.	Duplicate sample analysis	A	7, 10, 13
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 samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-13	1936445-02	Water	10/24/19
2	MW-16	1936445-03	Water	10/24/19
3	MW-1**	1936445-04**	Water	10/24/19
4	MW-9**	1936445-05**	Water	10/24/19
5	MW-13MS	1936445-02MS	Water	10/24/19
6	MW-13MSD	1936445-02MSD	Water	10/24/19
7	MW-13DUP	1936445-02DUP	Water	10/24/19
8	MW-1MS	1936445-04MS	Water	10/24/19
9	MW-1MSD	1936445-04MSD	Water	10/24/19
10	MW-1DUP	1936445-04DUP	Water	10/24/19
11	MW-9MS	1936445-05MS	Water	10/24/19
12	MW-9MSD	1936445-05MSD	Water	10/24/19
13	MW-9DUP	1936445-05DUP	Water	10/24/19
14				
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?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 1, 2

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)											
Cl		0.163	0.815										

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 #: 46573DG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 10/18/19

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	<u>Cr6+</u>	s1	0.2	0.022	1.0000	0.9999	Y
		s2	2	0.252			
		s3	10	1.27			
		s4	25	3.144			
		s5	50	6.336			
<u>CCV₂</u> (10/25 e 19:51) Calibration verification	<u>Cr6+</u>	FOUND 25.239	TRUE 25.000		101	101	Y
<u>CCV₄</u> (11/10 e 17:45) Calibration verification	<u>ClO₄⁻</u>	10.909	10.000		109	108	Y
<u>CCV₆</u> (11/10 e 20:49) Calibration verification	<u>ClO₄⁻</u>	10.000	10.000		100	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.

LDC #: 46573DG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

METHOD: Inorganics, Method see cover

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
(B060652) LCS	Laboratory control sample 10/25 e 17:18	Cr6+	0.0206 mg/L	0.0200 mg/L	103	103	Y
8	Matrix spike sample 11/11 e 12:58	Cr6+	(SSR-SR) 8.2645 mg/L	10.101 mg/L	81.8	81.4	Y
8/9	Duplicate sample 11/11 e 13:14	Cr6+	8.2645 mg/L	8.2187 mg/L	0.556	0.696	Y

Comments: _____

NASA JPL, 4Q2019 - LDC# 46573

SDG: 1936445

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-1	1936445-04	Total Recoverable Chromium	10/28/2019	3	Y	n	u		3.0	0.50	ug/L
MW-16	1936445-03	Total Recoverable Chromium	10/28/2019	16000	Y	y	v		60	10	ug/L
MW-9	1936445-05	Total Recoverable Chromium	10/28/2019	80	Y	y	v	J	3.0	0.50	ug/L

Analytical Method		EPA-218.6									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-1	1936445-04	Hexavalent Chromium	10/25/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-16	1936445-03	Hexavalent Chromium	10/25/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-9	1936445-05	Hexavalent Chromium	10/25/2019	#####	Y	y	v		0.0002	0.0000	mg/L

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	Sulfate	10/25/2019	57	Y	y	v		1.0	0.20	mg/L
MW-13	1936445-02	Nitrate as N	10/25/2019	4.9	Y	y	v		0.10	0.042	mg/L
MW-13	1936445-02	Chloride	10/25/2019	41	Y	y	v		0.50	0.15	mg/L
MW-16	1936445-03	Sulfate	10/25/2019	48	Y	y	v		1.0	0.20	mg/L
MW-16	1936445-03	Chloride	10/25/2019	77	Y	y	v		0.50	0.15	mg/L
MW-16	1936445-03	Nitrate as N	10/25/2019	1.5	Y	y	v		0.10	0.042	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
MW-1	1936445-04	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L
MW-13	1936445-02	Perchlorate	11/11/2019	40	Y	y	v		20	3.8	ug/L
MW-16	1936445-03	Perchlorate	11/10/2019	1.5	Y	y	v j		4.0	0.76	ug/L
MW-9	1936445-05	Perchlorate	11/10/2019	4	Y	n	u		4.0	0.76	ug/L

SDG: 1936445

Analytical Method		EPA-353.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	Nitrite as N	10/25/2019	0.05	Y	n	u		0.050	0.010	mg/L
MW-16	1936445-03	Nitrite as N	10/25/2019	0.05	Y	n	u		0.050	0.010	mg/L

Analytical Method		EPA-365.1									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	ortho-Phosphate as P	10/25/2019	0.057	Y	y	v		0.050	0.017	mg/L
MW-16	1936445-03	ortho-Phosphate as P	10/25/2019	0.26	Y	y	v		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
MW-1	1936445-04	Toluene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	t-Amyl Methyl ether	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-1	1936445-04	Allyl chloride	10/29/2019	5	Y	n	u		5.0	0.47	ug/L
MW-1	1936445-04	Acrylonitrile	10/29/2019	5	Y	n	u		5.0	1.5	ug/L
MW-1	1936445-04	Acetone	10/29/2019	10	Y	n	u		10	6.6	ug/L
MW-1	1936445-04	Vinyl chloride	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-1	1936445-04	1,3,5-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	1,2,4-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	1,1,2-Trichloro-1,2,2-trifluoroethane	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-1	1936445-04	1,2,3-Trichloropropane	10/29/2019	1	Y	n	u		1.0	0.78	ug/L
MW-1	1936445-04	Trichlorofluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Trichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-1	1936445-04	1,1,2-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-1	1936445-04	1,1,1-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-1	1936445-04	t-Butyl alcohol	10/29/2019	10	Y	n	u		10	9.4	ug/L
MW-1	1936445-04	1,2,3-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-1	1936445-04	o-Xylene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-1	1936445-04	Tetrachloroethene	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-1	1936445-04	1,1,2,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	1,2,4-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	Tetrahydrofuran	10/29/2019	20	Y	n	u		20	5.2	ug/L
MW-1	1936445-04	Ethyl methacrylate	10/29/2019	4	Y	n	u		4.0	1.3	ug/L
MW-1	1936445-04	Ethyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-1	1936445-04	Hexachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-1	1936445-04	2-Hexanone	10/29/2019	10	Y	n	u		10	5.0	ug/L
MW-1	1936445-04	Methacrylonitrile	10/29/2019	10	Y	n	u		10	2.3	ug/L
MW-1	1936445-04	Methyl ethyl ketone	10/29/2019	10	Y	n	u		10	3.3	ug/L
MW-1	1936445-04	Methyl isobutyl ketone	10/29/2019	10	Y	n	u		10	2.4	ug/L
MW-1	1936445-04	Methyl methacrylate	10/29/2019	5	Y	n	u		5.0	1.2	ug/L
MW-1	1936445-04	1,1-Dichloropropanone	10/29/2019	0	Y	y	v				ug/L
MW-1	1936445-04	Propionitrile	10/29/2019	20	Y	n	u		20	6.2	ug/L
MW-1	1936445-04	Carbon disulfide	10/29/2019	1	Y	n	u		1.0	0.48	ug/L
MW-1	1936445-04	Chloroacetonitrile	10/29/2019	0	Y	y	v				ug/L
MW-1	1936445-04	1-Chlorobutane	10/29/2019	0	Y	y	v				ug/L
MW-1	1936445-04	1,1,1,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-1	1936445-04	Methyl acrylate	10/29/2019	0	Y	y	v				ug/L
MW-1	1936445-04	Nitrobenzene	10/29/2019	0	Y	y	v				ug/L
MW-1	1936445-04	2-Nitropropane	10/29/2019	0	Y	y	v				ug/L
MW-1	1936445-04	Diethyl ether	10/29/2019	2	Y	n	u		2.0	0.33	ug/L
MW-1	1936445-04	trans-1,4-Dichloro-2-butene	10/29/2019	5	Y	n	u		5.0	1.8	ug/L
MW-1	1936445-04	Pentachloroethane	10/29/2019	2	Y	n	u		2.0	0.63	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-1	1936445-04	Chlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Methyl iodide	10/29/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-1	1936445-04	1,2-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-1	1936445-04	Dibromomethane	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-1	1936445-04	1,2-Dibromoethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-1	1936445-04	1,2-Dibromo-3-chloropropane	10/29/2019	1	Y	n	u		1.0	0.89	ug/L
MW-1	1936445-04	Dibromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-1	1936445-04	4-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-1	1936445-04	2-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Chloromethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-1	1936445-04	Bromomethane	10/29/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-1	1936445-04	Chloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	Bromodichloromethane	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-1	1936445-04	Carbon tetrachloride	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	tert-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-1	1936445-04	sec-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-1	1936445-04	n-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	Bromoform	10/29/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-1	1936445-04	Bromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-1	1936445-04	Benzene	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-1	1936445-04	Styrene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-1	1936445-04	p- & m-Xylenes	10/29/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-1	1936445-04	Chloroform	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	cis-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Bromobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-1	1936445-04	Methyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Naphthalene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-1	1936445-04	p-Isopropyltoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Isopropylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-1	1936445-04	Hexachlorobutadiene	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-1	1936445-04	1,3-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-1	1936445-04	trans-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-1	1936445-04	Methylene chloride	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-1	1936445-04	1,1-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-1	1936445-04	2,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-1	1936445-04	Dichlorodifluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	1,3-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-1	1936445-04	1,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	trans-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	cis-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-1	1936445-04	1,1-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-1	1936445-04	1,2-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-1	1936445-04	1,1-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	1,4-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	Ethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-1	1936445-04	n-Propylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1936445-02	Acetone	10/29/2019	10	Y	n	u		10	6.6	ug/L
MW-13	1936445-02	Allyl chloride	10/29/2019	5	Y	n	u		5.0	0.47	ug/L
MW-13	1936445-02	Bromodichloromethane	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1936445-02	t-Butyl alcohol	10/29/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	Carbon disulfide	10/29/2019	1	Y	n	u		1.0	0.48	ug/L
MW-13	1936445-02	Diethyl ether	10/29/2019	2	Y	n	u		2.0	0.33	ug/L
MW-13	1936445-02	Ethyl methacrylate	10/29/2019	4	Y	n	u		4.0	1.3	ug/L
MW-13	1936445-02	trans-1,4-Dichloro-2-butene	10/29/2019	5	Y	n	u		5.0	1.8	ug/L
MW-13	1936445-02	Vinyl chloride	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1936445-02	1,3,5-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	1,2,4-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	1,1,2-Trichloro-1,2,2-trifluoroethane	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1936445-02	1,2,3-Trichloropropane	10/29/2019	1	Y	n	u		1.0	0.78	ug/L
MW-13	1936445-02	Trichlorofluoromethane	10/29/2019	2.8	Y	y	v		0.50	0.14	ug/L
MW-13	1936445-02	Trichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1936445-02	1,1,1-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1936445-02	o-Xylene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1936445-02	1,2,4-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	1,2,3-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1936445-02	1,1,2-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1936445-02	Chloroacetonitrile	10/29/2019	0	Y	y	v				ug/L
MW-13	1936445-02	Benzene	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1936445-02	Bromobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	1,1-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	Toluene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	Bromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1936445-02	2-Nitropropane	10/29/2019	0	Y	y	v				ug/L
MW-13	1936445-02	Nitrobenzene	10/29/2019	0	Y	y	v				ug/L
MW-13	1936445-02	Methyl acrylate	10/29/2019	0	Y	y	v				ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	Tetrahydrofuran	10/29/2019	20	Y	n	u		20	5.2	ug/L
MW-13	1936445-02	1-Chlorobutane	10/29/2019	0	Y	y	v				ug/L
MW-13	1936445-02	Ethyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-13	1936445-02	p- & m-Xylenes	10/29/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-13	1936445-02	Propionitrile	10/29/2019	20	Y	n	u		20	6.2	ug/L
MW-13	1936445-02	Pentachloroethane	10/29/2019	2	Y	n	u		2.0	0.63	ug/L
MW-13	1936445-02	Methyl methacrylate	10/29/2019	5	Y	n	u		5.0	1.2	ug/L
MW-13	1936445-02	Methyl isobutyl ketone	10/29/2019	10	Y	n	u		10	2.4	ug/L
MW-13	1936445-02	Methyl ethyl ketone	10/29/2019	10	Y	n	u		10	3.3	ug/L
MW-13	1936445-02	Methacrylonitrile	10/29/2019	10	Y	n	u		10	2.3	ug/L
MW-13	1936445-02	2-Hexanone	10/29/2019	10	Y	n	u		10	5.0	ug/L
MW-13	1936445-02	Hexachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1936445-02	1,1-Dichloropropanone	10/29/2019	0	Y	y	v				ug/L
MW-13	1936445-02	Chloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	1,1-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1936445-02	1,2-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1936445-02	Dibromomethane	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-13	1936445-02	1,2-Dibromoethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1936445-02	1,2-Dibromo-3-chloropropane	10/29/2019	1	Y	n	u		1.0	0.89	ug/L
MW-13	1936445-02	Dibromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1936445-02	4-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-13	1936445-02	2-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	1,4-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	Chloroform	10/29/2019	1.1	Y	y	v		0.50	0.14	ug/L
MW-13	1936445-02	Dichlorodifluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	Chlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	Bromoform	10/29/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-13	1936445-02	n-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	Bromomethane	10/29/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-13	1936445-02	Methyl iodide	10/29/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-13	1936445-02	t-Amyl Methyl ether	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1936445-02	Carbon tetrachloride	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	tert-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1936445-02	sec-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1936445-02	Chloromethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1936445-02	Ethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	1,1,2,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	1,1,1,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1936445-02	Styrene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1936445-02	n-Propylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1936445-02	Naphthalene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1936445-02	Methyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	Methylene chloride	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1936445-02	p-Isopropyltoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	1,3-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1936445-02	Hexachlorobutadiene	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1936445-02	Tetrachloroethene	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-13	1936445-02	trans-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1936445-02	cis-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	1,1-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-13	1936445-02	2,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1936445-02	1,3-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1936445-02	1,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1936445-02	trans-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	cis-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1936445-02	1,2-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1936445-02	Isopropylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1936445-02	Acrylonitrile	10/29/2019	5	Y	n	u		5.0	1.5	ug/L
MW-16	1936445-03	Trichlorofluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	t-Butyl alcohol	10/29/2019	10	Y	n	u		10	9.4	ug/L
MW-16	1936445-03	t-Amyl Methyl ether	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1936445-03	Allyl chloride	10/29/2019	5	Y	n	u		5.0	0.47	ug/L
MW-16	1936445-03	Acrylonitrile	10/29/2019	5	Y	n	u		5.0	1.5	ug/L
MW-16	1936445-03	Acetone	10/29/2019	10	Y	n	u		10	6.6	ug/L
MW-16	1936445-03	Vinyl chloride	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1936445-03	1,3,5-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	1,2,4-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	1,1,1,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1936445-03	1,2,3-Trichloropropane	10/29/2019	1	Y	n	u		1.0	0.78	ug/L
MW-16	1936445-03	Ethyl methacrylate	10/29/2019	4	Y	n	u		4.0	1.3	ug/L
MW-16	1936445-03	Trichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1936445-03	1,1,2-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1936445-03	1,1,1-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1936445-03	1,2,4-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	1,2,3-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936445

Analytical 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	1936445-03	Toluene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	Tetrachloroethene	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1936445-03	1,1,2,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	1,1,2-Trichloro-1,2,2-trifluoroethane	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1936445-03	Propionitrile	10/29/2019	20	Y	n	u		20	6.2	ug/L
MW-16	1936445-03	Bromomethane	10/29/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
MW-16	1936445-03	2-Nitropropane	10/29/2019	0	Y	y	v				ug/L
MW-16	1936445-03	Nitrobenzene	10/29/2019	0	Y	y	v				ug/L
MW-16	1936445-03	Methyl acrylate	10/29/2019	0	Y	y	v				ug/L
MW-16	1936445-03	1,1-Dichloropropanone	10/29/2019	0	Y	y	v				ug/L
MW-16	1936445-03	1-Chlorobutane	10/29/2019	0	Y	y	v				ug/L
MW-16	1936445-03	Chloroacetonitrile	10/29/2019	0	Y	y	v				ug/L
MW-16	1936445-03	o-Xylene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1936445-03	trans-1,4-Dichloro-2-butene	10/29/2019	5	Y	n	u		5.0	1.8	ug/L
MW-16	1936445-03	Tetrahydrofuran	10/29/2019	20	Y	n	u		20	5.2	ug/L
MW-16	1936445-03	Bromodichloromethane	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1936445-03	Pentachloroethane	10/29/2019	2	Y	n	u		2.0	0.63	ug/L
MW-16	1936445-03	Methyl methacrylate	10/29/2019	5	Y	n	u		5.0	1.2	ug/L
MW-16	1936445-03	Methyl isobutyl ketone	10/29/2019	10	Y	n	u		10	2.4	ug/L
MW-16	1936445-03	Methyl ethyl ketone	10/29/2019	10	Y	n	u		10	3.3	ug/L
MW-16	1936445-03	Methacrylonitrile	10/29/2019	10	Y	n	u		10	2.3	ug/L
MW-16	1936445-03	2-Hexanone	10/29/2019	10	Y	n	u		10	5.0	ug/L
MW-16	1936445-03	Hexachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1936445-03	Ethyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-16	1936445-03	Carbon disulfide	10/29/2019	1	Y	n	u		1.0	0.48	ug/L

SDG: 1936445

Analytical 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	1936445-03	p- & m-Xylenes	10/29/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-16	1936445-03	Carbon tetrachloride	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	1,3-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1936445-03	1,2-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1936445-03	Dibromomethane	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1936445-03	1,2-Dibromoethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1936445-03	1,2-Dibromo-3-chloropropane	10/29/2019	1	Y	n	u		1.0	0.89	ug/L
MW-16	1936445-03	Dibromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1936445-03	4-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-16	1936445-03	Chloromethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1936445-03	1,4-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	Chlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	2-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	tert-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1936445-03	sec-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1936445-03	n-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	Bromoform	10/29/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-16	1936445-03	Benzene	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1936445-03	Styrene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-16	1936445-03	Bromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1936445-03	Diethyl ether	10/29/2019	2	Y	n	u		2.0	0.33	ug/L
MW-16	1936445-03	Bromobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	Chloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	Methylene chloride	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1936445-03	n-Propylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L

SDG: 1936445

Analytical 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	1936445-03	Chloroform	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	Methyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	Dichlorodifluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	p-Isopropyltoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	Isopropylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	Hexachlorobutadiene	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1936445-03	Methyl iodide	10/29/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-16	1936445-03	Ethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	trans-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1936445-03	cis-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1936445-03	1,1-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1936445-03	1,1-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	Naphthalene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1936445-03	1,1-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1936445-03	1,2-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	cis-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1936445-03	trans-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1936445-03	1,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1936445-03	1,3-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1936445-03	2,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-9	1936445-05	1,1,2-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-9	1936445-05	1,3,5-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Allyl chloride	10/29/2019	5	Y	n	u		5.0	0.47	ug/L
MW-9	1936445-05	Acrylonitrile	10/29/2019	5	Y	n	u		5.0	1.5	ug/L
MW-9	1936445-05	Acetone	10/29/2019	10	Y	n	u		10	6.6	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-9	1936445-05	t-Butyl alcohol	10/29/2019	10	Y	n	u		10	9.4	ug/L
MW-9	1936445-05	Vinyl chloride	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-9	1936445-05	Carbon disulfide	10/29/2019	1	Y	n	u		1.0	0.48	ug/L
MW-9	1936445-05	t-Amyl Methyl ether	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-9	1936445-05	1,2,4-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	1,1,2-Trichloro-1,2,2-trifluoroethane	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-9	1936445-05	1,2,3-Trichloropropane	10/29/2019	1	Y	n	u		1.0	0.78	ug/L
MW-9	1936445-05	Trichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-9	1936445-05	1,1,1-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-9	1936445-05	1,2,4-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	1,2,3-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-9	1936445-05	Tetrachloroethene	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-9	1936445-05	2-Nitropropane	10/29/2019	0	Y	y	v				ug/L
MW-9	1936445-05	trans-1,4-Dichloro-2-butene	10/29/2019	5	Y	n	u		5.0	1.8	ug/L
MW-9	1936445-05	Trichlorofluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Propionitrile	10/29/2019	20	Y	n	u		20	6.2	ug/L
MW-9	1936445-05	1,1,2,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	Nitrobenzene	10/29/2019	0	Y	y	v				ug/L
MW-9	1936445-05	Methyl iodide	10/29/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-9	1936445-05	Methyl acrylate	10/29/2019	0	Y	y	v				ug/L
MW-9	1936445-05	1,1-Dichloropropanone	10/29/2019	0	Y	y	v				ug/L
MW-9	1936445-05	1-Chlorobutane	10/29/2019	0	Y	y	v				ug/L
MW-9	1936445-05	Chloroacetonitrile	10/29/2019	0	Y	y	v				ug/L
MW-9	1936445-05	o-Xylene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-9	1936445-05	Bromomethane	10/29/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-9	1936445-05	Tetrahydrofuran	10/29/2019	20	Y	n	u		20	5.2	ug/L
MW-9	1936445-05	Diethyl ether	10/29/2019	2	Y	n	u		2.0	0.33	ug/L
MW-9	1936445-05	Pentachloroethane	10/29/2019	2	Y	n	u		2.0	0.63	ug/L
MW-9	1936445-05	Methyl methacrylate	10/29/2019	5	Y	n	u		5.0	1.2	ug/L
MW-9	1936445-05	Methyl isobutyl ketone	10/29/2019	10	Y	n	u		10	2.4	ug/L
MW-9	1936445-05	Methyl ethyl ketone	10/29/2019	10	Y	n	u		10	3.3	ug/L
MW-9	1936445-05	Methacrylonitrile	10/29/2019	10	Y	n	u		10	2.3	ug/L
MW-9	1936445-05	2-Hexanone	10/29/2019	10	Y	n	u		10	5.0	ug/L
MW-9	1936445-05	Hexachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-9	1936445-05	Ethyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-9	1936445-05	Ethyl methacrylate	10/29/2019	4	Y	n	u		4.0	1.3	ug/L
MW-9	1936445-05	p- & m-Xylenes	10/29/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-9	1936445-05	Chloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	1,2-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-9	1936445-05	Dibromomethane	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-9	1936445-05	1,2-Dibromoethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-9	1936445-05	1,2-Dibromo-3-chloropropane	10/29/2019	1	Y	n	u		1.0	0.89	ug/L
MW-9	1936445-05	Dibromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-9	1936445-05	4-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-9	1936445-05	2-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Chloromethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-9	1936445-05	Chloroform	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	1,3-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-9	1936445-05	Bromobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	Bromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-9	1936445-05	Chlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Carbon tetrachloride	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	tert-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-9	1936445-05	sec-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-9	1936445-05	n-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	Bromoform	10/29/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-9	1936445-05	Bromodichloromethane	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-9	1936445-05	1,1,1,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-9	1936445-05	Toluene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	Benzene	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-9	1936445-05	Hexachlorobutadiene	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-9	1936445-05	n-Propylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-9	1936445-05	Styrene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-9	1936445-05	Methyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Methylene chloride	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-9	1936445-05	1,4-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	Isopropylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Naphthalene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-9	1936445-05	Ethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	trans-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-9	1936445-05	cis-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	1,1-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	p-Isopropyltoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-9	1936445-05	Dichlorodifluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	1,1-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1936445

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-9	1936445-05	1,2-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	1,1-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-9	1936445-05	cis-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-9	1936445-05	trans-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-9	1936445-05	1,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-9	1936445-05	1,3-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-9	1936445-05	2,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-1024119	1936445-01	Dichlorodifluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	1,1-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	1,2-Dichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	1,1-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-9-1024119	1936445-01	cis-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-9-1024119	1936445-01	trans-1,2-Dichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	1,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	1,4-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	1,3-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-1024119	1936445-01	2,2-Dichloropropane	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-1024119	1936445-01	1,1-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-1024119	1936445-01	cis-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	trans-1,3-Dichloropropene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-1024119	1936445-01	Ethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	Hexachlorobutadiene	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-9-1024119	1936445-01	Isopropylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	Methylene chloride	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-1024119	1936445-01	Chlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1936445

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-9-1024119	1936445-01	p-Isopropyltoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	Chloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	t-Amyl Methyl ether	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-1024119	1936445-01	Methyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	Bromobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	Bromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-9-1024119	1936445-01	Bromodichloromethane	10/29/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-9-1024119	1936445-01	Bromoform	10/29/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-9-1024119	1936445-01	n-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	sec-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-1024119	1936445-01	Chloroform	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	Carbon tetrachloride	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	1,3-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-9-1024119	1936445-01	Benzene	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-9-1024119	1936445-01	Chloromethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-9-1024119	1936445-01	2-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	4-Chlorotoluene	10/29/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-9-1024119	1936445-01	Dibromochloromethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-9-1024119	1936445-01	1,2-Dibromo-3-chloropropane	10/29/2019	1	Y	n	u		1.0	0.89	ug/L
TB-9-1024119	1936445-01	1,2-Dibromoethane	10/29/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-9-1024119	1936445-01	Dibromomethane	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-9-1024119	1936445-01	1,2-Dichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-1024119	1936445-01	tert-Butylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-1024119	1936445-01	p- & m-Xylenes	10/29/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-9-1024119	1936445-01	Acrylonitrile	10/29/2019	5	Y	n	u		5.0	1.5	ug/L

SDG: 1936445

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-9-1024119	1936445-01	Ethyl t-butyl ether	10/29/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-9-1024119	1936445-01	Hexachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-9-1024119	1936445-01	2-Hexanone	10/29/2019	10	Y	n	u		10	5.0	ug/L
TB-9-1024119	1936445-01	Methacrylonitrile	10/29/2019	10	Y	n	u		10	2.3	ug/L
TB-9-1024119	1936445-01	Methyl ethyl ketone	10/29/2019	10	Y	n	u		10	3.3	ug/L
TB-9-1024119	1936445-01	Methyl isobutyl ketone	10/29/2019	10	Y	n	u		10	2.4	ug/L
TB-9-1024119	1936445-01	Methyl methacrylate	10/29/2019	5	Y	n	u		5.0	1.2	ug/L
TB-9-1024119	1936445-01	Pentachloroethane	10/29/2019	2	Y	n	u		2.0	0.63	ug/L
TB-9-1024119	1936445-01	Diethyl ether	10/29/2019	2	Y	n	u		2.0	0.33	ug/L
TB-9-1024119	1936445-01	Tetrahydrofuran	10/29/2019	20	Y	n	u		20	5.2	ug/L
TB-9-1024119	1936445-01	trans-1,4-Dichloro-2-butene	10/29/2019	5	Y	n	u		5.0	1.8	ug/L
TB-9-1024119	1936445-01	o-Xylene	10/29/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-1024119	1936445-01	Chloroacetonitrile	10/29/2019	0	Y	y	v				ug/L
TB-9-1024119	1936445-01	1-Chlorobutane	10/29/2019	0	Y	y	v				ug/L
TB-9-1024119	1936445-01	1,1-Dichloropropanone	10/29/2019	0	Y	y	v				ug/L
TB-9-1024119	1936445-01	Methyl acrylate	10/29/2019	0	Y	y	v				ug/L
TB-9-1024119	1936445-01	Nitrobenzene	10/29/2019	0	Y	y	v				ug/L
TB-9-1024119	1936445-01	2-Nitropropane	10/29/2019	0	Y	y	v				ug/L
TB-9-1024119	1936445-01	Bromomethane	10/29/2019	0.5	Y	n	u	UJ	0.50	0.20	ug/L
TB-9-1024119	1936445-01	Methyl iodide	10/29/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-9-1024119	1936445-01	Propionitrile	10/29/2019	20	Y	n	u		20	6.2	ug/L
TB-9-1024119	1936445-01	Trichlorofluoromethane	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	n-Propylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-9-1024119	1936445-01	Styrene	10/29/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-9-1024119	1936445-01	1,1,1,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1936445

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-9-1024119	1936445-01	1,1,2,2-Tetrachloroethane	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	Tetrachloroethene	10/29/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-9-1024119	1936445-01	Toluene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	1,2,3-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-1024119	1936445-01	1,2,4-Trichlorobenzene	10/29/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-1024119	1936445-01	1,1,1-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-1024119	1936445-01	Ethyl methacrylate	10/29/2019	4	Y	n	u		4.0	1.3	ug/L
TB-9-1024119	1936445-01	Trichloroethene	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-1024119	1936445-01	Naphthalene	10/29/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-9-1024119	1936445-01	1,2,3-Trichloropropane	10/29/2019	1	Y	n	u		1.0	0.78	ug/L
TB-9-1024119	1936445-01	1,1,2-Trichloro-1,2,2-trifluoroethane	10/29/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-1024119	1936445-01	1,2,4-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-1024119	1936445-01	1,3,5-Trimethylbenzene	10/29/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-1024119	1936445-01	Vinyl chloride	10/29/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-1024119	1936445-01	Acetone	10/29/2019	10	Y	n	u		10	6.6	ug/L
TB-9-1024119	1936445-01	Allyl chloride	10/29/2019	5	Y	n	u		5.0	0.47	ug/L
TB-9-1024119	1936445-01	t-Butyl alcohol	10/29/2019	10	Y	n	u		10	9.4	ug/L
TB-9-1024119	1936445-01	Carbon disulfide	10/29/2019	1	Y	n	u		1.0	0.48	ug/L
TB-9-1024119	1936445-01	1,1,2-Trichloroethane	10/29/2019	0.5	Y	n	u		0.50	0.21	ug/L