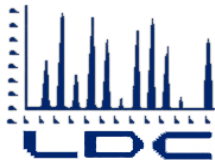


ATTACHMENT 2: DATA VALIDATION REPORTS

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

September 16, 2019

SUBJECT: NASA JPL, 3Q2019, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on August 21, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #45815:

<u>SDG #</u>	<u>Fraction</u>
1923881, 1924076 1924233, 1924372 1924515	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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 12, 2019

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1923881

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-1-072219	1923881-01	Water	07/22/19
MW-20-5	1923881-02	Water	07/22/19
MW-20-4	1923881-03	Water	07/22/19
MW-20-3	1923881-04	Water	07/22/19
MW-20-2	1923881-05	Water	07/22/19
MW-20-1	1923881-06	Water	07/22/19
MW-19-5	1923881-07	Water	07/22/19
MW-19-4	1923881-08	Water	07/22/19
MW-19-3	1923881-09	Water	07/22/19
MW-19-2	1923881-10	Water	07/22/19
MW-19-1	1923881-11	Water	07/22/19
EB-1-072219	1923881-12	Water	07/22/19
SB-1-072219	1923881-13	Water	07/22/19
MW-20-3MS	1923881-04MS	Water	07/22/19
MW-20-3MSD	1923881-04MSD	Water	07/22/19

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
07/26/19	Pentachloroethane	31.9	MW-20-5 MW-20-3	UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
07/29/19	Pentachloroethane	189	TB-1-072219 MW-20-4 MW-20-2 MW-20-1 MW-19-5 MW-19-4 MW-19-3 MW-19-2 MW-19-1 EB-1-072219 SB-1-072219	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-1-072219 was identified as a trip blank. No contaminants were found.

Sample EB-1-072219 was identified as an equipment blank. No contaminants were found.

Sample SB-1-072219 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1923881

Sample	Compound	Flag	A or P	Reason
MW-20-5 MW-20-3 TB-1-072219 MW-20-4 MW-20-2 MW-20-1 MW-19-5 MW-19-4 MW-19-3 MW-19-2 MW-19-1 EB-1-072219 SB-1-072219	Pentachloroethane	UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1923881

No Sample Data Qualified in this SDG

LDC #: 45815A1a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/11/19

SDG #: 1923881

Level III ~~XW~~

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	RSD ≤ 20%. γ^2 CV ≤ 30%
IV.	Continuing calibration	SW	CV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. ZB=2. SB=3
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Target compound identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	TB-1-072219	1923881-01	Water	07/22/19
2	MW-20-5	1923881-02	Water	07/22/19
3	MW-20-4	1923881-03	Water	07/22/19
4	MW-20-3	1923881-04	Water	07/22/19
5	MW-20-2	1923881-05	Water	07/22/19
6	MW-20-1	1923881-06	Water	07/22/19
7	MW-19-5	1923881-07	Water	07/22/19
8	MW-19-4	1923881-08	Water	07/22/19
9	MW-19-3	1923881-09	Water	07/22/19
10	MW-19-2	1923881-10	Water	07/22/19
11	MW-19-1	1923881-11	Water	07/22/19
12	EB-1-072219	1923881-12	Water	07/22/19
13	SB-1-072219	1923881-13	Water	07/22/19

LDC #: 45815A1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1923881

Level III

Laboratory: BC Laboratories, Inc.

Date: 9/17/19

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

14	MW-20-3MS	1923881-04MS	Water	07/22/19
15	MW-20-3MSD	1923881-04MSD	Water	07/22/19
16				
17				
18				

Notes:

	<u>B052164-BA1</u>					
	<u>B052153-BA1</u>					

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 11, 2019

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1923881

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1923881-02	Water	07/22/19
MW-20-4	1923881-03	Water	07/22/19
MW-20-3	1923881-04	Water	07/22/19
MW-20-2	1923881-05	Water	07/22/19
MW-20-1	1923881-06	Water	07/22/19
EB-1-072219	1923881-12	Water	07/22/19
SB-1-072219	1923881-13	Water	07/22/19
MW-20-3MS	1923881-04MS	Water	07/22/19
MW-20-3MSD	1923881-04MSD	Water	07/22/19
MW-20-3DUP	1923881-04DUP	Water	07/22/19

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-1-072219 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-1-072219	Total recoverable chromium	0.55

Sample SB-1-072219 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
SB-1-072219	Total recoverable chromium	0.61

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, 3Q2019
Chromium - Data Qualification Summary - SDG 1923881

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1923881

No Sample Data Qualified in this SDG

LDC #: 45815A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/15/19

SDG #: 1923881

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *KJC*
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	SW	EB=6, SB=7
VII.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VIII.	Duplicate sample analysis	A	DUP
IX.	Serial Dilution	N	Not Performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
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-20-5	1923881-02	Water	07/22/19
2	MW-20-4	1923881-03	Water	07/22/19
3	MW-20-3	1923881-04	Water	07/22/19
4	MW-20-2	1923881-05	Water	07/22/19
5	MW-20-1	1923881-06	Water	07/22/19
6	EB-1-072219	1923881-12	Water	07/22/19
7	SB-1-072219	1923881-13	Water	07/22/19
8	MW-20-3MS	1923881-04MS	Water	07/22/19
9	MW-20-3MSD	1923881-04MSD	Water	07/22/19
10	MW-20-3DUP	1923881-04DUP	Water	07/22/19
11				
12				
13				

Notes:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 11, 2019

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1923881

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-20-5	1923881-02	Water	07/22/19
MW-20-4	1923881-03	Water	07/22/19
MW-20-3	1923881-04	Water	07/22/19
MW-20-2	1923881-05	Water	07/22/19
MW-20-1	1923881-06	Water	07/22/19
MW-19-5	1923881-07	Water	07/22/19
MW-19-4	1923881-08	Water	07/22/19
MW-19-3	1923881-09	Water	07/22/19
MW-19-2	1923881-10	Water	07/22/19
MW-19-1	1923881-11	Water	07/22/19
EB-1-072219	1923881-12	Water	07/22/19
SB-1-072219	1923881-13	Water	07/22/19
MW-20-3MS	1923881-04MS	Water	07/22/19
MW-20-3MSD	1923881-04MSD	Water	07/22/19
MW-20-3DUP	1923881-04DUP	Water	07/22/19

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-1-072219 was identified as an equipment blank. No contaminants were found.

Sample SB-1-072219 was identified as a source blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

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

NASA JPL, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1923881

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1923881

No Sample Data Qualified in this SDG

LDC #: 45815A6

VALIDATION COMPLETENESS WORKSHEET

Date: 7/15/19

SDG #: 1923881

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *KJF*2nd Reviewer: *T***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, SB = 12
VI.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VII.	Duplicate sample analysis	A	DUP
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-20-5	1923881-02	Water	07/22/19
2	MW-20-4	1923881-03	Water	07/22/19
3	MW-20-3 ***	1923881-04 ***	Water	07/22/19
4	MW-20-2	1923881-05	Water	07/22/19
5	MW-20-1	1923881-06	Water	07/22/19
6	MW-19-5	1923881-07	Water	07/22/19
7	MW-19-4	1923881-08	Water	07/22/19
8	MW-19-3	1923881-09	Water	07/22/19
9	MW-19-2	1923881-10	Water	07/22/19
10	MW-19-1	1923881-11	Water	07/22/19
11	EB-1-072219	1923881-12	Water	07/22/19
12	SB-1-072219	1923881-13	Water	07/22/19
13	MW-20-3MS	1923881-04MS	Water	07/22/19
14	MW-20-3MSD	1923881-04MSD	Water	07/22/19
15	MW-20-3DUP	1923881-04DUP	Water	07/22/19
16				
17				

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

Sample ID	Parameter
1-5	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>
6-10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
11,12	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
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
13,14	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>
15	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ 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: _____

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Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-072219	1923881-12	Total Recoverable Chromium	7/24/2019	0.55		y	v j		3.0	0.50	ug/L
MW-20-1	1923881-06	Total Recoverable Chromium	7/24/2019	0.62		y	v j		3.0	0.50	ug/L
MW-20-2	1923881-05	Total Recoverable Chromium	7/24/2019	0.55		y	v j		3.0	0.50	ug/L
MW-20-3	1923881-04	Total Recoverable Chromium	7/24/2019	3.0		n	u		3.0	0.50	ug/L
MW-20-4	1923881-03	Total Recoverable Chromium	7/24/2019	3.0		n	u		3.0	0.50	ug/L
MW-20-5	1923881-02	Total Recoverable Chromium	7/24/2019	3.0		n	u		3.0	0.50	ug/L
SB-1-072219	1923881-13	Total Recoverable Chromium	7/24/2019	0.61		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-1-072219	1923881-12	Hexavalent Chromium	7/23/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-20-1	1923881-06	Hexavalent Chromium	7/23/2019	0.0001		y	v j		0.0002	0.0000	mg/L
MW-20-2	1923881-05	Hexavalent Chromium	7/23/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-20-3	1923881-04	Hexavalent Chromium	7/23/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-20-4	1923881-03	Hexavalent Chromium	7/23/2019	0.0000		y	v j		0.0002	0.0000	mg/L
MW-20-5	1923881-02	Hexavalent Chromium	7/23/2019	0.0001		y	v j		0.0004	0.0000	mg/L
SB-1-072219	1923881-13	Hexavalent Chromium	7/23/2019	0.0002		n	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-1-072219	1923881-12	Perchlorate	8/3/2019	4.0		n	u		4.0	0.76	ug/L
MW-19-1	1923881-11	Perchlorate	8/5/2019	1.7		y	v j		4.0	0.76	ug/L
MW-19-2	1923881-10	Perchlorate	8/5/2019	3.8		y	v j		4.0	0.76	ug/L
MW-19-3	1923881-09	Perchlorate	8/5/2019	3.8		y	v j		4.0	0.76	ug/L
MW-19-4	1923881-08	Perchlorate	8/5/2019	3.7		y	v j		4.0	0.76	ug/L

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Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1923881-07	Perchlorate	8/5/2019	2.3		y	v j		4.0	0.76	ug/L
MW-20-1	1923881-06	Perchlorate	8/3/2019	4.0		n	u		4.0	0.76	ug/L
MW-20-2	1923881-05	Perchlorate	8/5/2019	2.0		y	v j		4.0	0.76	ug/L
MW-20-3	1923881-04	Perchlorate	8/2/2019	4.0		n	u		4.0	0.76	ug/L
MW-20-4	1923881-03	Perchlorate	8/3/2019	4.0		n	u		4.0	0.76	ug/L
MW-20-5	1923881-02	Perchlorate	8/2/2019	4.0		n	u		4.0	0.76	ug/L
SB-1-072219	1923881-13	Perchlorate	8/3/2019	4.0		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-1-072219	1923881-12	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
EB-1-072219	1923881-12	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
EB-1-072219	1923881-12	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
EB-1-072219	1923881-12	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
EB-1-072219	1923881-12	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
EB-1-072219	1923881-12	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
EB-1-072219	1923881-12	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
EB-1-072219	1923881-12	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
EB-1-072219	1923881-12	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
EB-1-072219	1923881-12	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
EB-1-072219	1923881-12	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-072219	1923881-12	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
EB-1-072219	1923881-12	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
EB-1-072219	1923881-12	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
EB-1-072219	1923881-12	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
EB-1-072219	1923881-12	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
EB-1-072219	1923881-12	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
EB-1-072219	1923881-12	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
EB-1-072219	1923881-12	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
EB-1-072219	1923881-12	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
EB-1-072219	1923881-12	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
EB-1-072219	1923881-12	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
EB-1-072219	1923881-12	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
EB-1-072219	1923881-12	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
EB-1-072219	1923881-12	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
EB-1-072219	1923881-12	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
EB-1-072219	1923881-12	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-072219	1923881-12	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
EB-1-072219	1923881-12	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
EB-1-072219	1923881-12	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
EB-1-072219	1923881-12	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
EB-1-072219	1923881-12	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
EB-1-072219	1923881-12	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
EB-1-072219	1923881-12	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
EB-1-072219	1923881-12	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
EB-1-072219	1923881-12	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
EB-1-072219	1923881-12	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
EB-1-072219	1923881-12	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
EB-1-072219	1923881-12	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
EB-1-072219	1923881-12	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
EB-1-072219	1923881-12	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
EB-1-072219	1923881-12	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
EB-1-072219	1923881-12	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
EB-1-072219	1923881-12	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
EB-1-072219	1923881-12	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-1-072219	1923881-12	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
EB-1-072219	1923881-12	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
EB-1-072219	1923881-12	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
EB-1-072219	1923881-12	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
EB-1-072219	1923881-12	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
EB-1-072219	1923881-12	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
EB-1-072219	1923881-12	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
EB-1-072219	1923881-12	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
EB-1-072219	1923881-12	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
EB-1-072219	1923881-12	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
EB-1-072219	1923881-12	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
EB-1-072219	1923881-12	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
EB-1-072219	1923881-12	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
EB-1-072219	1923881-12	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
EB-1-072219	1923881-12	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
EB-1-072219	1923881-12	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-19-1	1923881-11	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-1	1923881-11	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-19-1	1923881-11	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-19-1	1923881-11	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-19-1	1923881-11	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-19-1	1923881-11	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-1	1923881-11	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-19-1	1923881-11	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-19-1	1923881-11	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1923881-11	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-19-1	1923881-11	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-19-1	1923881-11	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-19-1	1923881-11	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-19-1	1923881-11	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-19-1	1923881-11	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-19-1	1923881-11	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-19-1	1923881-11	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-19-1	1923881-11	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-19-1	1923881-11	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-19-1	1923881-11	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-1	1923881-11	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-19-1	1923881-11	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-1	1923881-11	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-19-1	1923881-11	Chloroform	7/29/2019	0.46		y	v j		0.50	0.14	ug/L
MW-19-1	1923881-11	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-1	1923881-11	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-1	1923881-11	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-1	1923881-11	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-19-1	1923881-11	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1923881-11	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-1	1923881-11	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-1	1923881-11	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-1	1923881-11	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-1	1923881-11	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-1	1923881-11	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-1	1923881-11	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-1	1923881-11	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-19-1	1923881-11	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-1	1923881-11	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-1	1923881-11	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-1	1923881-11	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-1	1923881-11	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-19-1	1923881-11	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-1	1923881-11	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-1	1923881-11	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-1	1923881-11	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-19-1	1923881-11	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-1	1923881-11	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-1	1923881-11	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-1	1923881-11	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-1	1923881-11	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-1	1923881-11	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-1	1923881-11	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-19-1	1923881-11	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-1	1923881-11	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-1	1923881-11	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-1	1923881-11	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-1	1923881-11	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-1	1923881-11	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-1	1923881-11	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-1	1923881-11	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-2	1923881-10	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-2	1923881-10	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1923881-10	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-2	1923881-10	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-2	1923881-10	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-2	1923881-10	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-2	1923881-10	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-2	1923881-10	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	Methyl t-butyl ether	7/29/2019	0.14		y	v j		0.50	0.14	ug/L
MW-19-2	1923881-10	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-2	1923881-10	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-2	1923881-10	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-2	1923881-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-2	1923881-10	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-19-2	1923881-10	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-2	1923881-10	Trichloroethene	7/29/2019	0.94		y	v		0.50	0.19	ug/L
MW-19-2	1923881-10	cis-1,2-Dichloroethene	7/29/2019	0.45		y	v j		0.50	0.27	ug/L
MW-19-2	1923881-10	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-2	1923881-10	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-2	1923881-10	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	Tetrachloroethene	7/29/2019	2.4		y	v		0.50	0.23	ug/L
MW-19-2	1923881-10	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-2	1923881-10	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-2	1923881-10	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1923881-10	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-2	1923881-10	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-2	1923881-10	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-2	1923881-10	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-2	1923881-10	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-2	1923881-10	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-19-2	1923881-10	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-2	1923881-10	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-19-2	1923881-10	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-2	1923881-10	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-2	1923881-10	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-19-2	1923881-10	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-2	1923881-10	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-2	1923881-10	Chloroform	7/29/2019	2.2		y	v		0.50	0.14	ug/L
MW-19-2	1923881-10	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-2	1923881-10	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-2	1923881-10	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-19-2	1923881-10	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-2	1923881-10	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-19-2	1923881-10	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-2	1923881-10	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1923881-10	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-2	1923881-10	1,1-Dichloroethane	7/29/2019	0.16		y	v j		0.50	0.15	ug/L
MW-19-2	1923881-10	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-2	1923881-10	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-19-2	1923881-10	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-2	1923881-10	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-2	1923881-10	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-19-2	1923881-10	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-19-2	1923881-10	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-19-2	1923881-10	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-19-2	1923881-10	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-19-2	1923881-10	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-19-2	1923881-10	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-19-2	1923881-10	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-19-2	1923881-10	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-2	1923881-10	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-2	1923881-10	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-19-2	1923881-10	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-19-2	1923881-10	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-19-2	1923881-10	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-19-2	1923881-10	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-2	1923881-10	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-19-2	1923881-10	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-2	1923881-10	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-19-2	1923881-10	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-19-2	1923881-10	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-19-3	1923881-09	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-3	1923881-09	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-3	1923881-09	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-3	1923881-09	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-3	1923881-09	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-3	1923881-09	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-3	1923881-09	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-3	1923881-09	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-3	1923881-09	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-3	1923881-09	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	Tetrachloroethene	7/29/2019	0.83		y	v		0.50	0.23	ug/L
MW-19-3	1923881-09	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-3	1923881-09	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-3	1923881-09	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1923881-09	Trichloroethene	7/29/2019	0.34		y	v j		0.50	0.19	ug/L
MW-19-3	1923881-09	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-3	1923881-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-3	1923881-09	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-19-3	1923881-09	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-3	1923881-09	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-3	1923881-09	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-3	1923881-09	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-19-3	1923881-09	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-3	1923881-09	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-3	1923881-09	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-3	1923881-09	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-3	1923881-09	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-19-3	1923881-09	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-3	1923881-09	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-19-3	1923881-09	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-3	1923881-09	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1923881-09	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-3	1923881-09	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-3	1923881-09	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-3	1923881-09	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-3	1923881-09	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-3	1923881-09	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-3	1923881-09	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-3	1923881-09	Chloroform	7/29/2019	3.3		y	v		0.50	0.14	ug/L
MW-19-3	1923881-09	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-19-3	1923881-09	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-3	1923881-09	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-19-3	1923881-09	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-3	1923881-09	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-19-3	1923881-09	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-19-3	1923881-09	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-19-3	1923881-09	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-19-3	1923881-09	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-19-3	1923881-09	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-19-3	1923881-09	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-19-3	1923881-09	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-19-3	1923881-09	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-19-3	1923881-09	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-3	1923881-09	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-19-3	1923881-09	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-19-3	1923881-09	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-3	1923881-09	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-19-3	1923881-09	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-19-3	1923881-09	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-19-3	1923881-09	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-19-3	1923881-09	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-19-3	1923881-09	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-4	1923881-08	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-4	1923881-08	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-4	1923881-08	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-4	1923881-08	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-4	1923881-08	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-4	1923881-08	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-4	1923881-08	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-4	1923881-08	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-4	1923881-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-4	1923881-08	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-4	1923881-08	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1923881-08	Tetrachloroethene	7/29/2019	0.45		y	v j		0.50	0.23	ug/L
MW-19-4	1923881-08	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-4	1923881-08	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-4	1923881-08	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-4	1923881-08	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-4	1923881-08	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-4	1923881-08	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-4	1923881-08	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-19-4	1923881-08	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-4	1923881-08	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-4	1923881-08	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-4	1923881-08	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-4	1923881-08	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-4	1923881-08	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-4	1923881-08	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-19-4	1923881-08	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-4	1923881-08	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-4	1923881-08	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-4	1923881-08	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-4	1923881-08	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1923881-08	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-4	1923881-08	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-4	1923881-08	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-4	1923881-08	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-19-4	1923881-08	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-4	1923881-08	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-19-4	1923881-08	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-19-4	1923881-08	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-19-4	1923881-08	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-4	1923881-08	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-4	1923881-08	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-4	1923881-08	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-4	1923881-08	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-4	1923881-08	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-4	1923881-08	Chloroform	7/29/2019	0.81		y	v		0.50	0.14	ug/L
MW-19-4	1923881-08	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-19-4	1923881-08	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-19-4	1923881-08	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-4	1923881-08	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-4	1923881-08	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-19-4	1923881-08	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-19-4	1923881-08	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-4	1923881-08	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-19-4	1923881-08	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-19-4	1923881-08	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-19-4	1923881-08	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-19-4	1923881-08	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-19-4	1923881-08	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-4	1923881-08	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-19-4	1923881-08	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-19-4	1923881-08	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-19-4	1923881-08	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-19-4	1923881-08	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-19-4	1923881-08	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-19-4	1923881-08	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-19-4	1923881-08	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-19-4	1923881-08	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-5	1923881-07	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-5	1923881-07	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-5	1923881-07	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-5	1923881-07	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-5	1923881-07	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-5	1923881-07	Bromodichloromethane	7/29/2019	0.20		y	v j		0.50	0.20	ug/L
MW-19-5	1923881-07	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-19-5	1923881-07	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1923881-07	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-19-5	1923881-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-5	1923881-07	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-19-5	1923881-07	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-5	1923881-07	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-5	1923881-07	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-19-5	1923881-07	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-5	1923881-07	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-5	1923881-07	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-5	1923881-07	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-5	1923881-07	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	Tetrachloroethene	7/29/2019	0.39		y	v j		0.50	0.23	ug/L
MW-19-5	1923881-07	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-5	1923881-07	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-5	1923881-07	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1923881-07	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-5	1923881-07	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-5	1923881-07	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-19-5	1923881-07	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-5	1923881-07	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-19-5	1923881-07	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-19-5	1923881-07	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-19-5	1923881-07	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-19-5	1923881-07	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-19-5	1923881-07	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-19-5	1923881-07	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-5	1923881-07	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-19-5	1923881-07	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-19-5	1923881-07	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-19-5	1923881-07	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-19-5	1923881-07	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-19-5	1923881-07	Chloroform	7/29/2019	2.8		y	v		0.50	0.14	ug/L
MW-19-5	1923881-07	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-19-5	1923881-07	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-19-5	1923881-07	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-19-5	1923881-07	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-19-5	1923881-07	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-19-5	1923881-07	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-19-5	1923881-07	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-19-5	1923881-07	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-19-5	1923881-07	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-19-5	1923881-07	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-19-5	1923881-07	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-19-5	1923881-07	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-19-5	1923881-07	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-19-5	1923881-07	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-19-5	1923881-07	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-19-5	1923881-07	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-19-5	1923881-07	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-19-5	1923881-07	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-19-5	1923881-07	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-19-5	1923881-07	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-19-5	1923881-07	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-19-5	1923881-07	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-1	1923881-06	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-1	1923881-06	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-1	1923881-06	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-1	1923881-06	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-1	1923881-06	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-1	1923881-06	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-1	1923881-06	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-1	1923881-06	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-1	1923881-06	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-1	1923881-06	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-1	1923881-06	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-1	1923881-06	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-1	1923881-06	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-1	1923881-06	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-1	1923881-06	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-1	1923881-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-1	1923881-06	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-20-1	1923881-06	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-1	1923881-06	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-20-1	1923881-06	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-20-1	1923881-06	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-1	1923881-06	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-1	1923881-06	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-1	1923881-06	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-20-1	1923881-06	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-1	1923881-06	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-1	1923881-06	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-1	1923881-06	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-1	1923881-06	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	Chloroform	7/29/2019	0.19		y	v j		0.50	0.14	ug/L
MW-20-1	1923881-06	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-1	1923881-06	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-1	1923881-06	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-1	1923881-06	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-1	1923881-06	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-1	1923881-06	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-1	1923881-06	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-1	1923881-06	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-1	1923881-06	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-20-1	1923881-06	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-1	1923881-06	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-20-1	1923881-06	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-1	1923881-06	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-1	1923881-06	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-20-1	1923881-06	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-20-1	1923881-06	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-1	1923881-06	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-20-1	1923881-06	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-20-1	1923881-06	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-20-1	1923881-06	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-20-1	1923881-06	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-20-1	1923881-06	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-20-1	1923881-06	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-20-1	1923881-06	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-20-1	1923881-06	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-20-1	1923881-06	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-20-1	1923881-06	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-1	1923881-06	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-20-1	1923881-06	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-20-1	1923881-06	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-20-1	1923881-06	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-1	1923881-06	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-20-1	1923881-06	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-2	1923881-05	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-2	1923881-05	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-2	1923881-05	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-2	1923881-05	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-2	1923881-05	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-2	1923881-05	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-2	1923881-05	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-2	1923881-05	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-2	1923881-05	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-2	1923881-05	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-20-2	1923881-05	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-20-2	1923881-05	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-20-2	1923881-05	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-2	1923881-05	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-2	1923881-05	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-20-2	1923881-05	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1923881-05	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-2	1923881-05	Trichloroethene	7/29/2019	0.38		y	v j		0.50	0.19	ug/L
MW-20-2	1923881-05	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-2	1923881-05	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-2	1923881-05	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-2	1923881-05	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-2	1923881-05	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-2	1923881-05	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-2	1923881-05	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-2	1923881-05	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-2	1923881-05	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-2	1923881-05	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-2	1923881-05	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-2	1923881-05	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-20-2	1923881-05	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-2	1923881-05	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1923881-05	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	Chloroform	7/29/2019	0.19		y	v j		0.50	0.14	ug/L
MW-20-2	1923881-05	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-2	1923881-05	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-2	1923881-05	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-2	1923881-05	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-2	1923881-05	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-2	1923881-05	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-2	1923881-05	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-20-2	1923881-05	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-2	1923881-05	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-2	1923881-05	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-20-2	1923881-05	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-20-2	1923881-05	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-20-2	1923881-05	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-2	1923881-05	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-20-2	1923881-05	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-20-2	1923881-05	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-20-2	1923881-05	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-2	1923881-05	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-20-2	1923881-05	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-20-2	1923881-05	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-2	1923881-05	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-20-2	1923881-05	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-2	1923881-05	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-20-2	1923881-05	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-20-2	1923881-05	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-20-2	1923881-05	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-20-2	1923881-05	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-20-2	1923881-05	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-20-3	1923881-04	1,2,4-Trichlorobenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	1,1,1-Trichloroethane	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-3	1923881-04	1,1,2-Trichloroethane	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-3	1923881-04	Trichloroethene	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-3	1923881-04	Trichlorofluoromethane	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-3	1923881-04	1,2,3-Trichlorobenzene	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-3	1923881-04	1,2,4-Trimethylbenzene	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	Methacrylonitrile	7/26/2019	10		n	u		10	2.3	ug/L
MW-20-3	1923881-04	1,2,3-Trichloropropane	7/26/2019	1.0		n	u		1.0	0.78	ug/L
MW-20-3	1923881-04	Toluene	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	1,1,2,2-Tetrachloroethane	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	Styrene	7/26/2019	0.50		y	v		0.50	0.12	ug/L
MW-20-3	1923881-04	n-Propylbenzene	7/26/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-3	1923881-04	Naphthalene	7/26/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-3	1923881-04	Methyl ethyl ketone	7/26/2019	10		n	u		10	3.3	ug/L
MW-20-3	1923881-04	Methylene chloride	7/26/2019	0.50		n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1923881-04	trans-1,4-Dichloro-2-butene	7/26/2019	5.0		n	u		5.0	1.8	ug/L
MW-20-3	1923881-04	p-Isopropyltoluene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	Isopropylbenzene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	Methyl t-butyl ether	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	t-Butyl alcohol	7/26/2019	10		n	u		10	9.4	ug/L
MW-20-3	1923881-04	o-Xylene	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-3	1923881-04	p- & m-Xylenes	7/26/2019	0.50		n	u		0.50	0.34	ug/L
MW-20-3	1923881-04	Tetrahydrofuran	7/26/2019	20		n	u		20	5.2	ug/L
MW-20-3	1923881-04	Propionitrile	7/26/2019	20		n	u		20	6.2	ug/L
MW-20-3	1923881-04	Pentachloroethane	7/26/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-20-3	1923881-04	1,3,5-Trimethylbenzene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	Vinyl chloride	7/26/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-3	1923881-04	Acetone	7/26/2019	10		n	u		10	6.6	ug/L
MW-20-3	1923881-04	Acrylonitrile	7/26/2019	1.8		y	v j		5.0	1.5	ug/L
MW-20-3	1923881-04	Ethyl methacrylate	7/26/2019	4.0		n	u		4.0	1.3	ug/L
MW-20-3	1923881-04	t-Amyl Methyl ether	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-3	1923881-04	Methyl iodide	7/26/2019	2.0		n	u		2.0	1.1	ug/L
MW-20-3	1923881-04	Carbon disulfide	7/26/2019	1.0		n	u		1.0	0.48	ug/L
MW-20-3	1923881-04	1,1,1,2-Tetrachloroethane	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-3	1923881-04	Diethyl ether	7/26/2019	2.0		n	u		2.0	0.33	ug/L
MW-20-3	1923881-04	Hexachlorobutadiene	7/26/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-3	1923881-04	Ethyl t-butyl ether	7/26/2019	0.50		n	u		0.50	0.32	ug/L
MW-20-3	1923881-04	Hexachloroethane	7/26/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-3	1923881-04	2-Hexanone	7/26/2019	10		n	u		10	5.0	ug/L
MW-20-3	1923881-04	Methyl methacrylate	7/26/2019	5.0		n	u		5.0	1.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1923881-04	Methyl isobutyl ketone	7/26/2019	10		n	u		10	2.4	ug/L
MW-20-3	1923881-04	Allyl chloride	7/26/2019	5.0		n	u		5.0	0.47	ug/L
MW-20-3	1923881-04	1,2-Dichloroethane	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	4-Chlorotoluene	7/26/2019	0.50		n	u		0.50	0.093	ug/L
MW-20-3	1923881-04	Dibromochloromethane	7/26/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-3	1923881-04	1,2-Dibromo-3-chloropropane	7/26/2019	1.0		n	u		1.0	0.89	ug/L
MW-20-3	1923881-04	1,2-Dibromoethane	7/26/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-3	1923881-04	Dibromomethane	7/26/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-3	1923881-04	1,2-Dichlorobenzene	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-3	1923881-04	1,3-Dichlorobenzene	7/26/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-3	1923881-04	1,4-Dichlorobenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	2-Chlorotoluene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	1,1-Dichloroethane	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	1,3-Dichloropropane	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-3	1923881-04	1,1-Dichloroethene	7/26/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-3	1923881-04	cis-1,2-Dichloroethene	7/26/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-3	1923881-04	trans-1,2-Dichloroethene	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	1,2-Dichloropropane	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	Ethylbenzene	7/26/2019	0.18		y	v j		0.50	0.15	ug/L
MW-20-3	1923881-04	2,2-Dichloropropane	7/26/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-3	1923881-04	Tetrachloroethene	7/26/2019	0.55		y	v		0.50	0.23	ug/L
MW-20-3	1923881-04	cis-1,3-Dichloropropene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	trans-1,3-Dichloropropene	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-3	1923881-04	Dichlorodifluoromethane	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	Bromodichloromethane	7/26/2019	0.50		n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-3	1923881-04	Chloromethane	7/26/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-3	1923881-04	1,1-Dichloropropene	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-3	1923881-04	Benzene	7/26/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-3	1923881-04	Bromochloromethane	7/26/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-3	1923881-04	Bromoform	7/26/2019	0.50		n	u		0.50	0.46	ug/L
MW-20-3	1923881-04	Bromomethane	7/26/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-3	1923881-04	n-Butylbenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	tert-Butylbenzene	7/26/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-3	1923881-04	Carbon tetrachloride	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	Chlorobenzene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-3	1923881-04	Chloroethane	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-3	1923881-04	sec-Butylbenzene	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-3	1923881-04	Bromobenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-3	1923881-04	Chloroform	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-20-4	1923881-03	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-4	1923881-03	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-20-4	1923881-03	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-4	1923881-03	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-4	1923881-03	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-20-4	1923881-03	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-4	1923881-03	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-20-4	1923881-03	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-4	1923881-03	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-4	1923881-03	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-4	1923881-03	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-4	1923881-03	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-20-4	1923881-03	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-4	1923881-03	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-20-4	1923881-03	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-4	1923881-03	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-4	1923881-03	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-20-4	1923881-03	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-20-4	1923881-03	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-20-4	1923881-03	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-20-4	1923881-03	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-20-4	1923881-03	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-20-4	1923881-03	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-4	1923881-03	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-4	1923881-03	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-4	1923881-03	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-4	1923881-03	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-4	1923881-03	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-4	1923881-03	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-4	1923881-03	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-20-4	1923881-03	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-20-4	1923881-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-4	1923881-03	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-4	1923881-03	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-20-4	1923881-03	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-20-4	1923881-03	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-4	1923881-03	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-20-4	1923881-03	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-4	1923881-03	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-4	1923881-03	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-20-4	1923881-03	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-20-4	1923881-03	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-20-4	1923881-03	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-4	1923881-03	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-4	1923881-03	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-20-4	1923881-03	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-4	1923881-03	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-20-4	1923881-03	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-4	1923881-03	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-4	1923881-03	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-4	1923881-03	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-4	1923881-03	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-4	1923881-03	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-4	1923881-03	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-4	1923881-03	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-4	1923881-03	Styrene	7/29/2019	0.12		y	v j		0.50	0.12	ug/L
MW-20-4	1923881-03	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-4	1923881-03	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-4	1923881-03	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-5	1923881-02	1,1-Dichloroethene	7/26/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-5	1923881-02	1,2-Dichloroethane	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	Methyl t-butyl ether	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	trans-1,3-Dichloropropene	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-5	1923881-02	cis-1,2-Dichloroethene	7/26/2019	0.50		n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1923881-02	trans-1,2-Dichloroethene	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	1,2-Dichloropropane	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	1,3-Dichloropropane	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-5	1923881-02	2,2-Dichloropropane	7/26/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-5	1923881-02	1,1-Dichloropropene	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-5	1923881-02	cis-1,3-Dichloropropene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	Ethylbenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	Hexachlorobutadiene	7/26/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-5	1923881-02	Isopropylbenzene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	Styrene	7/26/2019	0.20		y	v j		0.50	0.12	ug/L
MW-20-5	1923881-02	Methylene chloride	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-5	1923881-02	Bromobenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	Naphthalene	7/26/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-5	1923881-02	n-Propylbenzene	7/26/2019	0.50		n	u		0.50	0.12	ug/L
MW-20-5	1923881-02	1,1,1,2-Tetrachloroethane	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-5	1923881-02	1,1-Dichloroethane	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	p-Isopropyltoluene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	Chloromethane	7/26/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-5	1923881-02	Benzene	7/26/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-5	1923881-02	Chlorobenzene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	Bromochloromethane	7/26/2019	0.50		n	u		0.50	0.27	ug/L
MW-20-5	1923881-02	1,1,2,2-Tetrachloroethane	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	Bromoform	7/26/2019	0.50		n	u		0.50	0.46	ug/L
MW-20-5	1923881-02	Bromomethane	7/26/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-5	1923881-02	n-Butylbenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1923881-02	sec-Butylbenzene	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-5	1923881-02	Carbon tetrachloride	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	Bromodichloromethane	7/26/2019	0.50		n	u		0.50	0.20	ug/L
MW-20-5	1923881-02	Chloroform	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	Dichlorodifluoromethane	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	2-Chlorotoluene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	4-Chlorotoluene	7/26/2019	0.50		n	u		0.50	0.093	ug/L
MW-20-5	1923881-02	Dibromochloromethane	7/26/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-5	1923881-02	1,2-Dibromo-3-chloropropane	7/26/2019	1.0		n	u		1.0	0.89	ug/L
MW-20-5	1923881-02	1,2-Dibromoethane	7/26/2019	0.50		n	u		0.50	0.22	ug/L
MW-20-5	1923881-02	Dibromomethane	7/26/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-5	1923881-02	1,2-Dichlorobenzene	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-5	1923881-02	1,3-Dichlorobenzene	7/26/2019	0.50		n	u		0.50	0.16	ug/L
MW-20-5	1923881-02	1,4-Dichlorobenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	Chloroethane	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	Methyl iodide	7/26/2019	2.0		n	u		2.0	1.1	ug/L
MW-20-5	1923881-02	trans-1,4-Dichloro-2-butene	7/26/2019	5.0		n	u		5.0	1.8	ug/L
MW-20-5	1923881-02	Diethyl ether	7/26/2019	2.0		n	u		2.0	0.33	ug/L
MW-20-5	1923881-02	Ethyl methacrylate	7/26/2019	4.0		n	u		4.0	1.3	ug/L
MW-20-5	1923881-02	Ethyl t-butyl ether	7/26/2019	0.50		n	u		0.50	0.32	ug/L
MW-20-5	1923881-02	Hexachloroethane	7/26/2019	0.50		n	u		0.50	0.11	ug/L
MW-20-5	1923881-02	2-Hexanone	7/26/2019	10		n	u		10	5.0	ug/L
MW-20-5	1923881-02	Carbon disulfide	7/26/2019	0.49		y	v j		1.0	0.48	ug/L
MW-20-5	1923881-02	Methyl ethyl ketone	7/26/2019	10		n	u		10	3.3	ug/L
MW-20-5	1923881-02	Pentachloroethane	7/26/2019	2.0		n	u	UJ	2.0	0.63	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1923881-02	Methyl isobutyl ketone	7/26/2019	10		n	u		10	2.4	ug/L
MW-20-5	1923881-02	Methyl methacrylate	7/26/2019	5.0		n	u		5.0	1.2	ug/L
MW-20-5	1923881-02	Propionitrile	7/26/2019	20		n	u		20	6.2	ug/L
MW-20-5	1923881-02	p- & m-Xylenes	7/26/2019	0.50		n	u		0.50	0.34	ug/L
MW-20-5	1923881-02	o-Xylene	7/26/2019	0.50		n	u		0.50	0.13	ug/L
MW-20-5	1923881-02	tert-Butylbenzene	7/26/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-5	1923881-02	Tetrachloroethene	7/26/2019	0.50		n	u		0.50	0.23	ug/L
MW-20-5	1923881-02	Methacrylonitrile	7/26/2019	10		n	u		10	2.3	ug/L
MW-20-5	1923881-02	1,1,1-Trichloroethane	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-5	1923881-02	Toluene	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	1,2,3-Trichlorobenzene	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-5	1923881-02	Tetrahydrofuran	7/26/2019	20		n	u		20	5.2	ug/L
MW-20-5	1923881-02	t-Butyl alcohol	7/26/2019	10		n	u		10	9.4	ug/L
MW-20-5	1923881-02	1,2,4-Trichlorobenzene	7/26/2019	0.50		n	u		0.50	0.15	ug/L
MW-20-5	1923881-02	1,1,2-Trichloroethane	7/26/2019	0.50		n	u		0.50	0.21	ug/L
MW-20-5	1923881-02	Trichloroethene	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-5	1923881-02	Trichlorofluoromethane	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	Acetone	7/26/2019	10		n	u		10	6.6	ug/L
MW-20-5	1923881-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-5	1923881-02	1,2,4-Trimethylbenzene	7/26/2019	0.50		n	u		0.50	0.17	ug/L
MW-20-5	1923881-02	1,3,5-Trimethylbenzene	7/26/2019	0.50		n	u		0.50	0.14	ug/L
MW-20-5	1923881-02	t-Amyl Methyl ether	7/26/2019	0.50		n	u		0.50	0.19	ug/L
MW-20-5	1923881-02	Vinyl chloride	7/26/2019	0.50		n	u		0.50	0.18	ug/L
MW-20-5	1923881-02	Allyl chloride	7/26/2019	5.0		n	u		5.0	0.47	ug/L
MW-20-5	1923881-02	1,2,3-Trichloropropane	7/26/2019	1.0		n	u		1.0	0.78	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-20-5	1923881-02	Acrylonitrile	7/26/2019	5.0		n	u		5.0	1.5	ug/L
SB-1-072219	1923881-13	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
SB-1-072219	1923881-13	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
SB-1-072219	1923881-13	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
SB-1-072219	1923881-13	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
SB-1-072219	1923881-13	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
SB-1-072219	1923881-13	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
SB-1-072219	1923881-13	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
SB-1-072219	1923881-13	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
SB-1-072219	1923881-13	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
SB-1-072219	1923881-13	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
SB-1-072219	1923881-13	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
SB-1-072219	1923881-13	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
SB-1-072219	1923881-13	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
SB-1-072219	1923881-13	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
SB-1-072219	1923881-13	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
SB-1-072219	1923881-13	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
SB-1-072219	1923881-13	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-1-072219	1923881-13	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
SB-1-072219	1923881-13	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
SB-1-072219	1923881-13	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
SB-1-072219	1923881-13	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
SB-1-072219	1923881-13	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
SB-1-072219	1923881-13	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
SB-1-072219	1923881-13	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
SB-1-072219	1923881-13	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
SB-1-072219	1923881-13	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
SB-1-072219	1923881-13	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
SB-1-072219	1923881-13	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
SB-1-072219	1923881-13	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
SB-1-072219	1923881-13	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
SB-1-072219	1923881-13	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-1-072219	1923881-13	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
SB-1-072219	1923881-13	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
SB-1-072219	1923881-13	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
SB-1-072219	1923881-13	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
SB-1-072219	1923881-13	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
SB-1-072219	1923881-13	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
SB-1-072219	1923881-13	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
SB-1-072219	1923881-13	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
SB-1-072219	1923881-13	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
SB-1-072219	1923881-13	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
SB-1-072219	1923881-13	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
SB-1-072219	1923881-13	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
SB-1-072219	1923881-13	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
SB-1-072219	1923881-13	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
SB-1-072219	1923881-13	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
SB-1-072219	1923881-13	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
SB-1-072219	1923881-13	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
SB-1-072219	1923881-13	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
SB-1-072219	1923881-13	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
SB-1-072219	1923881-13	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
SB-1-072219	1923881-13	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
SB-1-072219	1923881-13	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
SB-1-072219	1923881-13	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-1-072219	1923881-13	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
SB-1-072219	1923881-13	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
SB-1-072219	1923881-13	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
SB-1-072219	1923881-13	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
SB-1-072219	1923881-13	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
SB-1-072219	1923881-13	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
SB-1-072219	1923881-13	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
TB-1-072219	1923881-01	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-1-072219	1923881-01	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
TB-1-072219	1923881-01	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
TB-1-072219	1923881-01	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
TB-1-072219	1923881-01	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
TB-1-072219	1923881-01	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-1-072219	1923881-01	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
TB-1-072219	1923881-01	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-1-072219	1923881-01	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-1-072219	1923881-01	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-1-072219	1923881-01	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-1-072219	1923881-01	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-1-072219	1923881-01	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-1-072219	1923881-01	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-1-072219	1923881-01	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-072219	1923881-01	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
TB-1-072219	1923881-01	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-1-072219	1923881-01	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-1-072219	1923881-01	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
TB-1-072219	1923881-01	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
TB-1-072219	1923881-01	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
TB-1-072219	1923881-01	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
TB-1-072219	1923881-01	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-1-072219	1923881-01	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
TB-1-072219	1923881-01	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-1-072219	1923881-01	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
TB-1-072219	1923881-01	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
TB-1-072219	1923881-01	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
TB-1-072219	1923881-01	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
TB-1-072219	1923881-01	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-1-072219	1923881-01	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
TB-1-072219	1923881-01	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
TB-1-072219	1923881-01	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-072219	1923881-01	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
TB-1-072219	1923881-01	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
TB-1-072219	1923881-01	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
TB-1-072219	1923881-01	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
TB-1-072219	1923881-01	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
TB-1-072219	1923881-01	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
TB-1-072219	1923881-01	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
TB-1-072219	1923881-01	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
TB-1-072219	1923881-01	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
TB-1-072219	1923881-01	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
TB-1-072219	1923881-01	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
TB-1-072219	1923881-01	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
TB-1-072219	1923881-01	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
TB-1-072219	1923881-01	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
TB-1-072219	1923881-01	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
TB-1-072219	1923881-01	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-1-072219	1923881-01	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
TB-1-072219	1923881-01	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-1-072219	1923881-01	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
TB-1-072219	1923881-01	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
TB-1-072219	1923881-01	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
TB-1-072219	1923881-01	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
TB-1-072219	1923881-01	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-1-072219	1923881-01	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-1-072219	1923881-01	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
TB-1-072219	1923881-01	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
TB-1-072219	1923881-01	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
TB-1-072219	1923881-01	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
TB-1-072219	1923881-01	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
TB-1-072219	1923881-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-1-072219	1923881-01	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-1-072219	1923881-01	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-1-072219	1923881-01	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
TB-1-072219	1923881-01	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 12, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924076

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-2-072319	1924076-01	Water	07/23/19
MW-14-5	1924076-02	Water	07/23/19
MW-14-4	1924076-03	Water	07/23/19
MW-14-3**	1924076-04**	Water	07/23/19
MW-14-2	1924076-05	Water	07/23/19
MW-14-1	1924076-06	Water	07/23/19
MW-25-5	1924076-07	Water	07/23/19
MW-25-4	1924076-08	Water	07/23/19
DUP-1-3Q15	1924076-09	Water	07/23/19
MW-25-3	1924076-10	Water	07/23/19
MW-25-2	1924076-11	Water	07/23/19
MW-25-1	1924076-12	Water	07/23/19
EB-2-072319	1924076-13	Water	07/23/19
MW-14-4MS	1924076-03MS	Water	07/23/19
MW-14-4MSD	1924076-03MSD	Water	07/23/19
MW-25-5MS	1924076-07MS	Water	07/23/19
MW-25-5MSD	1924076-07MSD	Water	07/23/19

**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
07/29/19	Pentachloroethane	189	TB-2-072319 MW-14-5 MW-14-3** MW-14-2 MW-14-1 MW-25-5	UJ (all non-detects)	P

Date	Compound	%D	Associated Samples	Flag	A or P
07/30/19	Methyl iodide Pentachloroethane	33.8 65.3	MW-14-4 MW-25-4 DUP-1-3Q15 MW-25-3 MW-25-2 MW-25-1 EB-2-072319	UJ (all non-detects) UJ (all non-detects)	P

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-2-072319 was identified as a trip blank. No contaminants were found.

Sample EB-2-072319 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-25-4 and DUP-1-3Q15 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 thirteen samples.

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1924076

Sample	Compound	Flag	A or P	Reason
TB-2-072319 MW-14-5 MW-14-3** MW-14-2 MW-14-1 MW-25-5	Pentachloroethane	UJ (all non-detects)	P	Continuing calibration (%D)
MW-14-4 MW-25-4 DUP-1-3Q15 MW-25-3 MW-25-2 MW-25-1 EB-2-072319	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924076

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	☆	
II.	GC/MS Instrument performance check	☆	
III.	Initial calibration/ICV	☆-☆	RSD ≤ 20%. Y ² ICV ≤ 30%
IV.	Continuing calibration	☆	CCV ≤ 30%
V.	Laboratory Blanks	☆	
VI.	Field blanks	ND	TB=1. ZB=13
VII.	Surrogate spikes	☆	
VIII.	Matrix spike/Matrix spike duplicates	☆	
IX.	Laboratory control samples	☆	109
X.	Field duplicates	ND	8=8+9
XI.	Internal standards	☆	
XII.	Compound quantitation RL/LOQ/LODs	☆	Not reviewed for Level III validation
XIII.	Target compound identification	☆	Not reviewed for Level III validation
XIV.	System performance	☆	Not reviewed for Level III validation
XV.	Overall assessment of data	☆	

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

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-2-072319	1924076-01	Water	07/23/19
2	MW-14-5	1924076-02	Water	07/23/19
3	MW-14-4	1924076-03	Water	07/23/19
4	MW-14-3**	1924076-04**	Water	07/23/19
5	MW-14-2	1924076-05	Water	07/23/19
6	MW-14-1	1924076-06	Water	07/23/19
7	MW-25-5	1924076-07	Water	07/23/19
8	MW-25-4	1924076-08	Water	07/23/19
9	DUP-1-3Q15	1924076-09	Water	07/23/19
10	MW-25-3	1924076-10	Water	07/23/19
11	MW-25-2	1924076-11	Water	07/23/19
12	MW-25-1	1924076-12	Water	07/23/19
13	EB-2-072319	1924076-13	Water	07/23/19

LDC #: 45815B1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1924076

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 9/11/19

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

14	MW-14-4MS	1924076-03MS	Water	07/23/19
15	MW-14-4MSD	1924076-03MSD	Water	07/23/19
16	MW-25-5MS	1924076-07MS	Water	07/23/19
17	MW-25-5MSD	1924076-07MSD	Water	07/23/19
18				
19				
20				

Notes:

	B052164-BK				
	B052286-BK				

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%?	/			Y2
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 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 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 Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (10 std)	RRF (10 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL (MS-V5)	7/29/19	K (1st internal standard)	0.9480367	0.9480367	0.9052405	0.9052405	11.69643	11.696
			S (2nd internal standard)	0.3363997	0.3363996	0.3371298	0.3371298	13.20929	13.209
			EE (3rd internal standard)	1.901342	1.901342	1.94415	1.94415	12.29067	12.291
			(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	29JUL15	7/29/19	K (1st internal standard)	0.9052405	0.8783514	0.8783513	3.0	3.0
			S (2nd internal standard)	0.3371298	0.3297705	0.3297704	2.2	2.2
			EE (3rd internal standard)	1.94415	1.826695	1.826695	6.0	6.0
			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: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	10.17	102	102	
Bromofluorobenzene		10.04	100	100	
1,3-DCE- 1,2-Dichlorobenzene-d4	↓	10.47	105	105	
Dibromofluoromethane					

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 14/15

Compound	Spike Added (<u>µg/L</u>)		Sample Concentration (<u>µg/L</u>)	Spiked Sample Concentration (<u>µg/L</u>)		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	<u>25.00</u>	<u>25.00</u>	<u>ND</u>	<u>26.730</u>	<u>25.980</u>	<u>107</u>	<u>107</u>	<u>104</u>	<u>104</u>	<u>285</u>	<u>2.58</u>
Trichloroethene	↓	↓	<u>0.260</u>	<u>24.510</u>	<u>24.640</u>	<u>97.0</u>	<u>97.0</u>	<u>97.5</u>	<u>97.5</u>	<u>0.529</u>	<u>0.529</u>
Benzene	↓	↓	<u>ND</u>	<u>24.130</u>	<u>24.160</u>	<u>96.5</u>	<u>96.5</u>	<u>96.6</u>	<u>96.6</u>	<u>0.124</u>	<u>0.124</u>
Toluene	↓	↓	↓	<u>23.460</u>	<u>23.480</u>	<u>93.8</u>	<u>93.8</u>	<u>93.9</u>	<u>93.9</u>	<u>0.0852</u>	<u>0.0852</u>
Chlorobenzene	↓	↓	↓	<u>25.210</u>	<u>25.720</u>	<u>101</u>	<u>101</u>	<u>100</u>	<u>100</u>	<u>0.358</u>	<u>0.358</u>

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

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: B05216A-BS1

Compound	Spike Added (<u>15.4</u>)		Spiked Sample Concentration (<u>15.4</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>24.770</u>	<u>NA</u>	<u>99.1</u>	<u>99.1</u>				
Trichloroethene	↓	↓	<u>23.590</u>	↓	<u>94.4</u>	<u>94.4</u>				
Benzene	↓	↓	<u>23.860</u>	↓	<u>95.4</u>	<u>95.4</u>				
Toluene	↓	↓	<u>22.170</u>	↓	<u>88.7</u>	<u>88.7</u>				
Chlorobenzene	↓	↓	<u>24.480</u>	↓	<u>97.9</u>	<u>97.9</u>				

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924076

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-3**	1924076-04**	Water	07/23/19
MW-14-2	1924076-05	Water	07/23/19
MW-14-1	1924076-06	Water	07/23/19
MW-25-5	1924076-07	Water	07/23/19
MW-25-4	1924076-08	Water	07/23/19
DUP-1-3Q15	1924076-09	Water	07/23/19
MW-25-3	1924076-10	Water	07/23/19
MW-25-2	1924076-11	Water	07/23/19
MW-25-1	1924076-12	Water	07/23/19
EB-2-072319	1924076-13	Water	07/23/19
MW-14-3MS	1924076-04MS	Water	07/23/19
MW-14-3MSD	1924076-04MSD	Water	07/23/19
MW-14-3DUP	1924076-04DUP	Water	07/23/19

**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-2-072319 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-2-072319	Total recoverable chromium	0.74

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-25-4 and DUP-1-3Q15 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-25-4	DUP-1-3Q15	
Total recoverable chromium	1.8	1.7	6

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

NASA JPL, 3Q2019
Chromium - Data Qualification Summary - SDG 1924076

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924076

No Sample Data Qualified in this SDG

LDC #: 45815B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/5/19

SDG #: 1924076

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *KR*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	SW	EB = 10
VII.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VIII.	Duplicate sample analysis	A	DUP
IX.	Serial Dilution	N	Not Performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(5,6)
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable
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-14-3**	1924076-04**	Water	07/23/19
2	MW-14-2	1924076-05	Water	07/23/19
3	MW-14-1	1924076-06	Water	07/23/19
4	MW-25-5	1924076-07	Water	07/23/19
5	MW-25-4 <i>D₁</i>	1924076-08	Water	07/23/19
6	DUP-1-3Q15 <i>D₁</i>	1924076-09	Water	07/23/19
7	MW-25-3	1924076-10	Water	07/23/19
8	MW-25-2	1924076-11	Water	07/23/19
9	MW-25-1	1924076-12	Water	07/23/19
10	EB-2-072319	1924076-13	Water	07/23/19
11	MW-14-3MS	1924076-04MS	Water	07/23/19
12	MW-14-3MSD	1924076-04MSD	Water	07/23/19
13	MW-14-3DUP	1924076-04DUP	Water	07/23/19
14				
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 +/- RL(+/-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
Field Blanks

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

Blank units: ug/L Associated sample units: _____

Sampling date: 7/23/19 Soil factor applied _____

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: _____

Analyte	Blank ID	Sample Identification								
	10									
Total Recoverable Cr	0.74									

Blank units: _____ Associated sample units: _____

Sampling date: _____ Soil factor applied _____

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Analyte	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC#: 45815B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 200.8)

Analyte	Concentration (ug/L)		RPD
	5	6	
Total Recoverable Chromium	1.8	1.7	6

LDC #: 45875B4a

VALIDATION FINDINGS WORKSHEET Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: RK
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)						
7/25 9:23 ICV	ICP/MS (Initial calibration)	Cr	52.565	50.0	105	105	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
7/25 20:49 CCV	ICP/MS (Continuing calibration)	Cr	40.329	40.0	101	101	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
tune	Mass Axis	7.016	6.975	± 0.1 AMU	NA	Y
↓	%RSD	24.0	1.1	≤ 5% RSD	1.1	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
—	ICP interference check						
LCS	Laboratory control sample	Cr	40.074 $\mu\text{g/L}$	40.0 $\mu\text{g/L}$	100	100	Y
11	Matrix spike	↓	(SSR-SR) 38.976 $\mu\text{g/L}$	40.0 $\frac{\mu\text{g}}{\text{L}}$	97.4	97.4	↓
12	Duplicate	↓	37.382 $\frac{\mu\text{g}}{\text{L}}$	38.976 $\mu\text{g/L}$	4.18	4.18	↓
PDS	Post digestion spike	✓	37.712 $\frac{\mu\text{g}}{\text{L}}$	40.0 $\mu\text{g/L}$	94.3	94.3	↓
—	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924076

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-14-5	1924076-02	Water	07/23/19
MW-14-4	1924076-03	Water	07/23/19
MW-14-3**	1924076-04**	Water	07/23/19
MW-14-2	1924076-05	Water	07/23/19
MW-14-1	1924076-06	Water	07/23/19
MW-25-5	1924076-07	Water	07/23/19
MW-25-4	1924076-08	Water	07/23/19
DUP-1-3Q15	1924076-09	Water	07/23/19
MW-25-3	1924076-10	Water	07/23/19
MW-25-2	1924076-11	Water	07/23/19
MW-25-1	1924076-12	Water	07/23/19
EB-2-072319	1924076-13	Water	07/23/19
MW-14-4MS	1924076-03MS	Water	07/23/19
MW-14-4MSD	1924076-03MSD	Water	07/23/19
MW-14-4DUP	1924076-03DUP	Water	07/23/19
MW-14-3MS	1924076-04MS	Water	07/23/19
MW-14-3MSD	1924076-04MSD	Water	07/23/19
MW-14-3DUP	1924076-04DUP	Water	07/23/19

**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:

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-2-072319 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-25-4 and DUP-1-3Q15 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-25-4	DUP-1-3Q15	
Hexavalent Chromium	0.00046 mg/L	0.00044 mg/L	4
Perchlorate	6.2 ug/L	8.4 ug/L	30

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, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924076

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924076

No Sample Data Qualified in this SDG

LDC #: 45815B6
 SDG #: 1924076
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 9/19/19
 Page: 1 of 2
 Reviewer: *[Signature]*
 2nd Reviewer: *[Signature]*

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 = 12
VI.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VII.	Duplicate sample analysis	A	DUP
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 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-14-5	1924076-02	Water	07/23/19
2	MW-14-4	1924076-03	Water	07/23/19
3	MW-14-3**	1924076-04**	Water	07/23/19
4	MW-14-2	1924076-05	Water	07/23/19
5	MW-14-1	1924076-06	Water	07/23/19
6	MW-25-5	1924076-07	Water	07/23/19
7	MW-25-4 P ₁	1924076-08	Water	07/23/19
8	DUP-1-3Q15 P ₁	1924076-09	Water	07/23/19
9	MW-25-3	1924076-10	Water	07/23/19
10	MW-25-2	1924076-11	Water	07/23/19
11	MW-25-1	1924076-12	Water	07/23/19
12	EB-2-072319	1924076-13	Water	07/23/19
13	MW-14-4MS	1924076-03MS	Water	07/23/19
14	MW-14-4MSD	1924076-03MSD	Water	07/23/19
15	MW-14-4DUP	1924076-03DUP	Water	07/23/19
16	MW-14-3MS	1924076-04MS	Water	07/23/19
17	MW-14-3MSD	1924076-04MSD	Water	07/23/19

LDC #: 45815B6
SDG #: 1924076
Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 9/5/19
Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

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

18	MW-14-3DUP	1924076-04DUP	Water	07/23/19
19				
20				
21				

Notes: _____

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial calibration correlation coefficients ≥ 0.995 ?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? (<u>85-115</u>)	/			
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
1-12	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
3-12	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
QC	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
13, 14	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
15	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
16, 17	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
18	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄

Comments: _____

LDC#: 45815B6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Inorganics (See cover)

Analyte	Concentration		RPD
	7	8	
Hexavalent Chromium	0.00046 mg/L	0.00044 mg/L	4
Perchlorate	6.2 ug/L	8.4 ug/L	30

LDC #: 45815B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 7/22/19

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	Found Conc. (mg/L)	True Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr6+	s1	0.2	0.022	0.999867	0.999825	Y
		s2	2	0.2330			
		s3	10	1.189			
		s4	25	3.008			
		s5	50	5.846			
Calibration verification	Cr6+ ICV	7/25/19 12:42 ICV	26.090	25.0	104	104	Y
Calibration verification	Cr6+	7/28 14:07 CCV1	26.198	25.0	105	105	Y
Calibration verification	ClO4	CCV1	11.256 $\frac{ug}{L}$	10 $\frac{ug}{L}$	113	113	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 #: 45815136

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: KJK
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	ClO ₄	10.9918 $\frac{\mu g}{L}$	10.0 $\frac{\mu g}{L}$	110	110	Y
18	Matrix spike sample	Cr 6 ⁺	(SSR-SR) 0.020039 mg/L	0.020202 mg/L	99.2	99.1	Y
18	Duplicate sample	Cr 6 ⁺	0.369 $\frac{mg}{L}$	0.374 $\frac{mg}{L}$	1.35	1.35	Y

Comments: _____

NASA JPL, 3Q2019 - LDC# 45815B

SDG: 1924076

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-1-3Q15	1924076-09	Total Recoverable Chromium	7/25/2019	1.7		y	v j		3.0	0.50	ug/L
EB-2-072319	1924076-13	Total Recoverable Chromium	7/25/2019	0.74		y	v j		3.0	0.50	ug/L
MW-14-1	1924076-06	Total Recoverable Chromium	7/25/2019	1.2		y	v j		3.0	0.50	ug/L
MW-14-2	1924076-05	Total Recoverable Chromium	7/25/2019	1.0		y	v j		3.0	0.50	ug/L
MW-14-3	1924076-04	Total Recoverable Chromium	7/25/2019	3.0		n	u		3.0	0.50	ug/L
MW-25-1	1924076-12	Total Recoverable Chromium	7/25/2019	2.0		y	v j		3.0	0.50	ug/L
MW-25-2	1924076-11	Total Recoverable Chromium	7/25/2019	3.1		y	v		3.0	0.50	ug/L
MW-25-3	1924076-10	Total Recoverable Chromium	7/25/2019	2.4		y	v j		3.0	0.50	ug/L
MW-25-4	1924076-08	Total Recoverable Chromium	7/25/2019	1.8		y	v j		3.0	0.50	ug/L
MW-25-5	1924076-07	Total Recoverable Chromium	7/25/2019	0.53		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-1-3Q15	1924076-09	Hexavalent Chromium	7/25/2019	0.0004		y	v		0.0002	0.0000	mg/L
EB-2-072319	1924076-13	Hexavalent Chromium	7/25/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-14-1	1924076-06	Hexavalent Chromium	7/25/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-14-2	1924076-05	Hexavalent Chromium	7/25/2019	0.0006		y	v		0.0002	0.0000	mg/L
MW-14-3	1924076-04	Hexavalent Chromium	7/25/2019	0.0003		y	v		0.0002	0.0000	mg/L
MW-25-1	1924076-12	Hexavalent Chromium	7/25/2019	0.0003		y	v		0.0002	0.0000	mg/L
MW-25-2	1924076-11	Hexavalent Chromium	7/25/2019	0.0010		y	v		0.0002	0.0000	mg/L
MW-25-3	1924076-10	Hexavalent Chromium	7/25/2019	0.0019		y	v		0.0002	0.0000	mg/L
MW-25-4	1924076-08	Hexavalent Chromium	7/25/2019	0.0004		y	v		0.0002	0.0000	mg/L
MW-25-5	1924076-07	Hexavalent Chromium	7/25/2019	0.0000		y	v j		0.0002	0.0000	mg/L

SDG: 1924076

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-1-3Q15	1924076-09	Perchlorate	8/5/2019	8.4		y	v		4.0	0.76	ug/L
EB-2-072319	1924076-13	Perchlorate	8/5/2019	4.0		n	u		4.0	0.76	ug/L
MW-14-1	1924076-06	Perchlorate	8/5/2019	2.5		y	v j		4.0	0.76	ug/L
MW-14-2	1924076-05	Perchlorate	8/5/2019	4.2		y	v		4.0	0.76	ug/L
MW-14-3	1924076-04	Perchlorate	8/5/2019	3.9		y	v j		4.0	0.76	ug/L
MW-14-4	1924076-03	Perchlorate	8/5/2019	4.6		y	v		4.0	0.76	ug/L
MW-14-5	1924076-02	Perchlorate	8/5/2019	4.0		n	u		4.0	0.76	ug/L
MW-25-1	1924076-12	Perchlorate	8/5/2019	6.7		y	v		4.0	0.76	ug/L
MW-25-2	1924076-11	Perchlorate	8/5/2019	13		y	v		4.0	0.76	ug/L
MW-25-3	1924076-10	Perchlorate	8/5/2019	10		y	v		4.0	0.76	ug/L
MW-25-4	1924076-08	Perchlorate	8/5/2019	6.2		y	v		4.0	0.76	ug/L
MW-25-5	1924076-07	Perchlorate	8/5/2019	4.0		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
DUP-1-3Q15	1924076-09	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
DUP-1-3Q15	1924076-09	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
DUP-1-3Q15	1924076-09	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
DUP-1-3Q15	1924076-09	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
DUP-1-3Q15	1924076-09	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
DUP-1-3Q15	1924076-09	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
DUP-1-3Q15	1924076-09	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
DUP-1-3Q15	1924076-09	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
DUP-1-3Q15	1924076-09	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
DUP-1-3Q15	1924076-09	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L

SDG: 1924076

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-1-3Q15	1924076-09	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
DUP-1-3Q15	1924076-09	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
DUP-1-3Q15	1924076-09	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
DUP-1-3Q15	1924076-09	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
DUP-1-3Q15	1924076-09	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
DUP-1-3Q15	1924076-09	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
DUP-1-3Q15	1924076-09	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
DUP-1-3Q15	1924076-09	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
DUP-1-3Q15	1924076-09	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
DUP-1-3Q15	1924076-09	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
DUP-1-3Q15	1924076-09	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
DUP-1-3Q15	1924076-09	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
DUP-1-3Q15	1924076-09	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
DUP-1-3Q15	1924076-09	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
DUP-1-3Q15	1924076-09	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
DUP-1-3Q15	1924076-09	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
DUP-1-3Q15	1924076-09	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
DUP-1-3Q15	1924076-09	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
DUP-1-3Q15	1924076-09	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
DUP-1-3Q15	1924076-09	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
DUP-1-3Q15	1924076-09	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L

SDG: 1924076

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-1-3Q15	1924076-09	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
DUP-1-3Q15	1924076-09	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
DUP-1-3Q15	1924076-09	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
DUP-1-3Q15	1924076-09	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
DUP-1-3Q15	1924076-09	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
DUP-1-3Q15	1924076-09	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
DUP-1-3Q15	1924076-09	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
DUP-1-3Q15	1924076-09	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
DUP-1-3Q15	1924076-09	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
DUP-1-3Q15	1924076-09	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
DUP-1-3Q15	1924076-09	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
DUP-1-3Q15	1924076-09	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
DUP-1-3Q15	1924076-09	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
DUP-1-3Q15	1924076-09	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
DUP-1-3Q15	1924076-09	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
DUP-1-3Q15	1924076-09	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
DUP-1-3Q15	1924076-09	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
DUP-1-3Q15	1924076-09	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
DUP-1-3Q15	1924076-09	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L

SDG: 1924076

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-1-3Q15	1924076-09	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
DUP-1-3Q15	1924076-09	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
DUP-1-3Q15	1924076-09	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
DUP-1-3Q15	1924076-09	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
DUP-1-3Q15	1924076-09	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
DUP-1-3Q15	1924076-09	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
DUP-1-3Q15	1924076-09	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
DUP-1-3Q15	1924076-09	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
DUP-1-3Q15	1924076-09	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
DUP-1-3Q15	1924076-09	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
DUP-1-3Q15	1924076-09	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
DUP-1-3Q15	1924076-09	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
DUP-1-3Q15	1924076-09	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
DUP-1-3Q15	1924076-09	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
DUP-1-3Q15	1924076-09	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
DUP-1-3Q15	1924076-09	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
DUP-1-3Q15	1924076-09	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
DUP-1-3Q15	1924076-09	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
EB-2-072319	1924076-13	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-072319	1924076-13	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
EB-2-072319	1924076-13	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-2-072319	1924076-13	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
EB-2-072319	1924076-13	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
EB-2-072319	1924076-13	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-2-072319	1924076-13	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-2-072319	1924076-13	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
EB-2-072319	1924076-13	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-2-072319	1924076-13	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
EB-2-072319	1924076-13	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
EB-2-072319	1924076-13	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
EB-2-072319	1924076-13	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
EB-2-072319	1924076-13	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
EB-2-072319	1924076-13	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
EB-2-072319	1924076-13	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
EB-2-072319	1924076-13	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
EB-2-072319	1924076-13	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
EB-2-072319	1924076-13	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-072319	1924076-13	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
EB-2-072319	1924076-13	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
EB-2-072319	1924076-13	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
EB-2-072319	1924076-13	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
EB-2-072319	1924076-13	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
EB-2-072319	1924076-13	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-2-072319	1924076-13	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-2-072319	1924076-13	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-2-072319	1924076-13	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
EB-2-072319	1924076-13	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
EB-2-072319	1924076-13	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
EB-2-072319	1924076-13	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
EB-2-072319	1924076-13	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
EB-2-072319	1924076-13	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
EB-2-072319	1924076-13	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
EB-2-072319	1924076-13	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
EB-2-072319	1924076-13	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
EB-2-072319	1924076-13	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-072319	1924076-13	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
EB-2-072319	1924076-13	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-2-072319	1924076-13	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-2-072319	1924076-13	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-2-072319	1924076-13	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
EB-2-072319	1924076-13	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
EB-2-072319	1924076-13	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
EB-2-072319	1924076-13	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
EB-2-072319	1924076-13	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
EB-2-072319	1924076-13	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
EB-2-072319	1924076-13	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
EB-2-072319	1924076-13	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
EB-2-072319	1924076-13	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
EB-2-072319	1924076-13	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
EB-2-072319	1924076-13	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-2-072319	1924076-13	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
EB-2-072319	1924076-13	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
EB-2-072319	1924076-13	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
EB-2-072319	1924076-13	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-2-072319	1924076-13	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-2-072319	1924076-13	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
EB-2-072319	1924076-13	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-14-1	1924076-06	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-14-1	1924076-06	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-1	1924076-06	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-1	1924076-06	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-1	1924076-06	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-14-1	1924076-06	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-14-1	1924076-06	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-1	1924076-06	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-1	1924076-06	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-1	1924076-06	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-1	1924076-06	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-1	1924076-06	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-1	1924076-06	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-1	1924076-06	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-1	1924076-06	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-1	1924076-06	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-1	1924076-06	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-14-1	1924076-06	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-1	1924076-06	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-1	1924076-06	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-1	1924076-06	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-1	1924076-06	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	Chloroform	7/29/2019	0.32		y	v j		0.50	0.14	ug/L
MW-14-1	1924076-06	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-1	1924076-06	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-14-1	1924076-06	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-1	1924076-06	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-1	1924076-06	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-1	1924076-06	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-14-1	1924076-06	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-1	1924076-06	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-14-1	1924076-06	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-14-1	1924076-06	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-14-1	1924076-06	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-14-1	1924076-06	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-1	1924076-06	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-1	1924076-06	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-14-1	1924076-06	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-14-1	1924076-06	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-14-1	1924076-06	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-14-1	1924076-06	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-14-1	1924076-06	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-14-1	1924076-06	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-14-1	1924076-06	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-14-1	1924076-06	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-14-1	1924076-06	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-1	1924076-06	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-1	1924076-06	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-1	1924076-06	Methyl t-butyl ether	7/29/2019	0.26		y	v j		0.50	0.14	ug/L
MW-14-1	1924076-06	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-1	1924076-06	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-1	1924076-06	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-1	1924076-06	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-1	1924076-06	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-14-1	1924076-06	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-1	1924076-06	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-1	1924076-06	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-1	1924076-06	Trichloroethene	7/29/2019	0.60		y	v		0.50	0.19	ug/L
MW-14-1	1924076-06	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-1	1924076-06	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-14-1	1924076-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-1	1924076-06	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-1	1924076-06	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-1	1924076-06	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-14-2	1924076-05	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-2	1924076-05	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-14-2	1924076-05	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-2	1924076-05	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-2	1924076-05	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-14-2	1924076-05	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	Trichloroethene	7/29/2019	1.4		y	v		0.50	0.19	ug/L
MW-14-2	1924076-05	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-2	1924076-05	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-2	1924076-05	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-2	1924076-05	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-2	1924076-05	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	Tetrachloroethene	7/29/2019	0.32		y	v j		0.50	0.23	ug/L
MW-14-2	1924076-05	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1924076-05	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-2	1924076-05	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-2	1924076-05	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-2	1924076-05	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-14-2	1924076-05	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-14-2	1924076-05	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-14-2	1924076-05	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-14-2	1924076-05	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-14-2	1924076-05	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-14-2	1924076-05	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-14-2	1924076-05	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-14-2	1924076-05	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-14-2	1924076-05	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-14-2	1924076-05	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-14-2	1924076-05	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-2	1924076-05	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-14-2	1924076-05	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-14-2	1924076-05	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-14-2	1924076-05	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-14-2	1924076-05	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-14-2	1924076-05	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-14-2	1924076-05	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-2	1924076-05	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-14-2	1924076-05	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1924076-05	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-2	1924076-05	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-14-2	1924076-05	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-2	1924076-05	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-14-2	1924076-05	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-2	1924076-05	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-2	1924076-05	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-2	1924076-05	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-2	1924076-05	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-2	1924076-05	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-14-2	1924076-05	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-2	1924076-05	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-2	1924076-05	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-2	1924076-05	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-2	1924076-05	Chloroform	7/29/2019	0.48		y	v j		0.50	0.14	ug/L
MW-14-2	1924076-05	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-2	1924076-05	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-2	1924076-05	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-2	1924076-05	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-2	1924076-05	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-2	1924076-05	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-2	1924076-05	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-2	1924076-05	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-2	1924076-05	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-2	1924076-05	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-2	1924076-05	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-2	1924076-05	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-2	1924076-05	1,1-Dichloroethane	7/29/2019	0.17		y	v j		0.50	0.15	ug/L
MW-14-2	1924076-05	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-2	1924076-05	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-2	1924076-05	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-2	1924076-05	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-3	1924076-04	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-3	1924076-04	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-3	1924076-04	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-14-3	1924076-04	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-14-3	1924076-04	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-3	1924076-04	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-14-3	1924076-04	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1924076-04	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-3	1924076-04	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-3	1924076-04	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-3	1924076-04	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-3	1924076-04	Trichloroethene	7/29/2019	0.69		y	v		0.50	0.19	ug/L
MW-14-3	1924076-04	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-14-3	1924076-04	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-14-3	1924076-04	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-14-3	1924076-04	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-14-3	1924076-04	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-14-3	1924076-04	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-14-3	1924076-04	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-14-3	1924076-04	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-14-3	1924076-04	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-14-3	1924076-04	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-14-3	1924076-04	1,1-Dichloroethane	7/29/2019	0.27		y	v j		0.50	0.15	ug/L
MW-14-3	1924076-04	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-3	1924076-04	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-14-3	1924076-04	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-14-3	1924076-04	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-14-3	1924076-04	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-14-3	1924076-04	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1924076-04	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-14-3	1924076-04	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-3	1924076-04	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-14-3	1924076-04	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-3	1924076-04	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-3	1924076-04	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-3	1924076-04	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-3	1924076-04	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-3	1924076-04	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	Tetrachloroethene	7/29/2019	0.38		y	v j		0.50	0.23	ug/L
MW-14-3	1924076-04	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-3	1924076-04	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-3	1924076-04	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-3	1924076-04	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-3	1924076-04	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-3	1924076-04	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-3	1924076-04	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-3	1924076-04	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-3	1924076-04	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-3	1924076-04	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-3	1924076-04	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-3	1924076-04	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-3	1924076-04	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-14-3	1924076-04	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-14-3	1924076-04	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-14-3	1924076-04	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-3	1924076-04	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-3	1924076-04	Chloroform	7/29/2019	0.28		y	v j		0.50	0.14	ug/L
MW-14-3	1924076-04	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-3	1924076-04	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-3	1924076-04	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-3	1924076-04	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-3	1924076-04	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-3	1924076-04	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-4	1924076-03	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-4	1924076-03	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1924076-03	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	Trichloroethene	7/30/2019	0.26		y	v j		0.50	0.19	ug/L
MW-14-4	1924076-03	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-4	1924076-03	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-4	1924076-03	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-14-4	1924076-03	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-4	1924076-03	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-4	1924076-03	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-4	1924076-03	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-4	1924076-03	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-4	1924076-03	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-4	1924076-03	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-14-4	1924076-03	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-14-4	1924076-03	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-14-4	1924076-03	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-14-4	1924076-03	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-14-4	1924076-03	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-14-4	1924076-03	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-14-4	1924076-03	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-14-4	1924076-03	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-4	1924076-03	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-4	1924076-03	Acetone	7/30/2019	10		n	u		10	6.6	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1924076-03	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-14-4	1924076-03	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-14-4	1924076-03	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-14-4	1924076-03	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-14-4	1924076-03	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-14-4	1924076-03	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-4	1924076-03	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-14-4	1924076-03	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-14-4	1924076-03	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-4	1924076-03	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-14-4	1924076-03	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-4	1924076-03	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-14-4	1924076-03	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-4	1924076-03	Chloroform	7/30/2019	0.23		y	v j		0.50	0.14	ug/L
MW-14-4	1924076-03	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-4	1924076-03	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-4	1924076-03	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-4	1924076-03	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-14-4	1924076-03	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1924076-03	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-4	1924076-03	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-4	1924076-03	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-14-4	1924076-03	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-4	1924076-03	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-4	1924076-03	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-4	1924076-03	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-4	1924076-03	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-4	1924076-03	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-4	1924076-03	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-4	1924076-03	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-4	1924076-03	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-4	1924076-03	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-4	1924076-03	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-4	1924076-03	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-4	1924076-03	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-4	1924076-03	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-4	1924076-03	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-14-5	1924076-02	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-5	1924076-02	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-5	1924076-02	Styrene	7/29/2019	0.17		y	v j		0.50	0.12	ug/L
MW-14-5	1924076-02	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-14-5	1924076-02	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-5	1924076-02	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-5	1924076-02	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-5	1924076-02	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-5	1924076-02	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-5	1924076-02	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-5	1924076-02	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-5	1924076-02	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-14-5	1924076-02	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-14-5	1924076-02	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-5	1924076-02	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1924076-02	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-14-5	1924076-02	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-14-5	1924076-02	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-14-5	1924076-02	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-14-5	1924076-02	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-5	1924076-02	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-5	1924076-02	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-5	1924076-02	Acrylonitrile	7/29/2019	2.3		y	v j		5.0	1.5	ug/L
MW-14-5	1924076-02	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-14-5	1924076-02	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-5	1924076-02	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-5	1924076-02	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-14-5	1924076-02	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-14-5	1924076-02	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-14-5	1924076-02	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-14-5	1924076-02	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-14-5	1924076-02	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-5	1924076-02	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-5	1924076-02	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-14-5	1924076-02	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-14-5	1924076-02	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-5	1924076-02	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1924076-02	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-14-5	1924076-02	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-14-5	1924076-02	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
MW-14-5	1924076-02	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-14-5	1924076-02	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-14-5	1924076-02	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-14-5	1924076-02	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-14-5	1924076-02	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-14-5	1924076-02	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-5	1924076-02	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-14-5	1924076-02	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-5	1924076-02	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-14-5	1924076-02	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-14-5	1924076-02	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-14-5	1924076-02	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-14-5	1924076-02	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-14-5	1924076-02	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-14-5	1924076-02	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-14-5	1924076-02	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-14-5	1924076-02	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-14-5	1924076-02	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-14-5	1924076-02	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-14-5	1924076-02	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-14-5	1924076-02	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-1	1924076-12	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-25-1	1924076-12	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-25-1	1924076-12	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-1	1924076-12	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-1	1924076-12	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-1	1924076-12	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-1	1924076-12	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-1	1924076-12	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-1	1924076-12	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-1	1924076-12	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-1	1924076-12	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-25-1	1924076-12	Methyl t-butyl ether	7/30/2019	0.53		y	v		0.50	0.14	ug/L

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MW-25-1	1924076-12	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-25-1	1924076-12	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-1	1924076-12	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-1	1924076-12	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-1	1924076-12	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-1	1924076-12	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-25-1	1924076-12	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-25-1	1924076-12	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-25-1	1924076-12	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-25-1	1924076-12	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-25-1	1924076-12	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-25-1	1924076-12	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-25-1	1924076-12	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-25-1	1924076-12	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-25-1	1924076-12	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-1	1924076-12	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-25-1	1924076-12	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-25-1	1924076-12	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-25-1	1924076-12	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-25-1	1924076-12	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-25-1	1924076-12	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-25-1	1924076-12	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-1	1924076-12	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-25-1	1924076-12	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-1	1924076-12	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-1	1924076-12	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-25-1	1924076-12	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-1	1924076-12	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-25-1	1924076-12	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-1	1924076-12	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-1	1924076-12	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-1	1924076-12	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-25-1	1924076-12	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-1	1924076-12	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-1	1924076-12	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	Chloroform	7/30/2019	0.42		y	v j		0.50	0.14	ug/L
MW-25-1	1924076-12	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-1	1924076-12	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-1	1924076-12	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-1	1924076-12	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-1	1924076-12	Trichloroethene	7/30/2019	1.5		y	v		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-1	1924076-12	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-1	1924076-12	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-1	1924076-12	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-1	1924076-12	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-1	1924076-12	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-1	1924076-12	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-1	1924076-12	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-1	1924076-12	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-1	1924076-12	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-1	1924076-12	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-2	1924076-11	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-2	1924076-11	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-2	1924076-11	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-2	1924076-11	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-2	1924076-11	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-25-2	1924076-11	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-2	1924076-11	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-2	1924076-11	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-2	1924076-11	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1924076-11	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-2	1924076-11	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-2	1924076-11	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-2	1924076-11	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-2	1924076-11	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-2	1924076-11	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-2	1924076-11	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-25-2	1924076-11	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-2	1924076-11	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-25-2	1924076-11	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-2	1924076-11	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-2	1924076-11	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-2	1924076-11	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-2	1924076-11	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-2	1924076-11	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-2	1924076-11	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-2	1924076-11	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-25-2	1924076-11	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-2	1924076-11	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1924076-11	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-25-2	1924076-11	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-25-2	1924076-11	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-25-2	1924076-11	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-2	1924076-11	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-2	1924076-11	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-2	1924076-11	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-25-2	1924076-11	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-25-2	1924076-11	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-25-2	1924076-11	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-25-2	1924076-11	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-25-2	1924076-11	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-25-2	1924076-11	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-25-2	1924076-11	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-25-2	1924076-11	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-25-2	1924076-11	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-2	1924076-11	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-25-2	1924076-11	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-2	1924076-11	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-2	1924076-11	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-2	1924076-11	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-25-2	1924076-11	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-2	1924076-11	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-2	1924076-11	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-2	1924076-11	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-2	1924076-11	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-25-2	1924076-11	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-25-2	1924076-11	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-25-2	1924076-11	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-2	1924076-11	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-25-2	1924076-11	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-25-2	1924076-11	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-2	1924076-11	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-2	1924076-11	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-2	1924076-11	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-2	1924076-11	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-2	1924076-11	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-2	1924076-11	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-2	1924076-11	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-2	1924076-11	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-3	1924076-10	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-3	1924076-10	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-3	1924076-10	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1924076-10	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-3	1924076-10	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	Chloroform	7/30/2019	0.33		y	v j		0.50	0.14	ug/L
MW-25-3	1924076-10	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-25-3	1924076-10	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-3	1924076-10	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-3	1924076-10	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-3	1924076-10	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-3	1924076-10	Tetrachloroethene	7/30/2019	0.43		y	v j		0.50	0.23	ug/L
MW-25-3	1924076-10	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-3	1924076-10	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-25-3	1924076-10	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-25-3	1924076-10	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-25-3	1924076-10	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-25-3	1924076-10	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-25-3	1924076-10	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-3	1924076-10	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-3	1924076-10	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-3	1924076-10	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-3	1924076-10	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1924076-10	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-3	1924076-10	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-3	1924076-10	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-3	1924076-10	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-3	1924076-10	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-3	1924076-10	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-3	1924076-10	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-25-3	1924076-10	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-3	1924076-10	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-3	1924076-10	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-3	1924076-10	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-3	1924076-10	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-25-3	1924076-10	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-3	1924076-10	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-25-3	1924076-10	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-3	1924076-10	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-3	1924076-10	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-3	1924076-10	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-25-3	1924076-10	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-25-3	1924076-10	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-3	1924076-10	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-25-3	1924076-10	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-25-3	1924076-10	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-25-3	1924076-10	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-25-3	1924076-10	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-3	1924076-10	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-25-3	1924076-10	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-3	1924076-10	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-3	1924076-10	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-3	1924076-10	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-25-3	1924076-10	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-3	1924076-10	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-3	1924076-10	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-3	1924076-10	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-25-3	1924076-10	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-25-3	1924076-10	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-3	1924076-10	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-25-3	1924076-10	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-25-3	1924076-10	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-25-3	1924076-10	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1924076-08	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-4	1924076-08	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-4	1924076-08	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-4	1924076-08	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-25-4	1924076-08	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-4	1924076-08	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-25-4	1924076-08	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-4	1924076-08	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-4	1924076-08	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-25-4	1924076-08	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-4	1924076-08	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-4	1924076-08	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-4	1924076-08	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-25-4	1924076-08	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-25-4	1924076-08	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-4	1924076-08	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-4	1924076-08	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-4	1924076-08	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1924076-08	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-4	1924076-08	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-4	1924076-08	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-25-4	1924076-08	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-4	1924076-08	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-4	1924076-08	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-4	1924076-08	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-4	1924076-08	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-4	1924076-08	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-4	1924076-08	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-4	1924076-08	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-25-4	1924076-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-4	1924076-08	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-4	1924076-08	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-4	1924076-08	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-25-4	1924076-08	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-25-4	1924076-08	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-25-4	1924076-08	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-4	1924076-08	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-25-4	1924076-08	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-25-4	1924076-08	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-25-4	1924076-08	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1924076-08	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-25-4	1924076-08	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-4	1924076-08	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-25-4	1924076-08	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-25-4	1924076-08	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-4	1924076-08	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-25-4	1924076-08	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-25-4	1924076-08	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-25-4	1924076-08	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-25-4	1924076-08	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-4	1924076-08	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-4	1924076-08	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-4	1924076-08	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-4	1924076-08	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-4	1924076-08	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-25-4	1924076-08	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-4	1924076-08	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-4	1924076-08	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-4	1924076-08	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-4	1924076-08	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-4	1924076-08	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-4	1924076-08	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-4	1924076-08	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-25-4	1924076-08	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-4	1924076-08	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-4	1924076-08	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-4	1924076-08	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-5	1924076-07	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
MW-25-5	1924076-07	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
MW-25-5	1924076-07	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
MW-25-5	1924076-07	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-5	1924076-07	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L
MW-25-5	1924076-07	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-5	1924076-07	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
MW-25-5	1924076-07	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-5	1924076-07	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
MW-25-5	1924076-07	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
MW-25-5	1924076-07	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
MW-25-5	1924076-07	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
MW-25-5	1924076-07	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-25-5	1924076-07	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
MW-25-5	1924076-07	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
MW-25-5	1924076-07	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
MW-25-5	1924076-07	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
MW-25-5	1924076-07	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1924076-07	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
MW-25-5	1924076-07	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
MW-25-5	1924076-07	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-5	1924076-07	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-5	1924076-07	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-5	1924076-07	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-5	1924076-07	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-5	1924076-07	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-5	1924076-07	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
MW-25-5	1924076-07	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
MW-25-5	1924076-07	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-5	1924076-07	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-5	1924076-07	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-5	1924076-07	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
MW-25-5	1924076-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
MW-25-5	1924076-07	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1924076-07	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-5	1924076-07	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
MW-25-5	1924076-07	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-5	1924076-07	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-5	1924076-07	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L
MW-25-5	1924076-07	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-5	1924076-07	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
MW-25-5	1924076-07	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
MW-25-5	1924076-07	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
MW-25-5	1924076-07	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-5	1924076-07	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
MW-25-5	1924076-07	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-5	1924076-07	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
MW-25-5	1924076-07	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-5	1924076-07	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-5	1924076-07	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
MW-25-5	1924076-07	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-25-5	1924076-07	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
MW-25-5	1924076-07	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
MW-25-5	1924076-07	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
MW-25-5	1924076-07	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
MW-25-5	1924076-07	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-5	1924076-07	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
MW-25-5	1924076-07	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
MW-25-5	1924076-07	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L
MW-25-5	1924076-07	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-5	1924076-07	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
MW-25-5	1924076-07	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
TB-2-072319	1924076-01	Chloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	Propionitrile	7/29/2019	20		n	u		20	6.2	ug/L
TB-2-072319	1924076-01	Chloromethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
TB-2-072319	1924076-01	Bromobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	Chlorobenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	Carbon tetrachloride	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	tert-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.18	ug/L
TB-2-072319	1924076-01	sec-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-2-072319	1924076-01	n-Butylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	Bromomethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
TB-2-072319	1924076-01	Bromoform	7/29/2019	0.50		n	u		0.50	0.46	ug/L
TB-2-072319	1924076-01	Bromodichloromethane	7/29/2019	0.50		n	u		0.50	0.20	ug/L
TB-2-072319	1924076-01	Bromochloromethane	7/29/2019	0.50		n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-2-072319	1924076-01	Chloroform	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-2-072319	1924076-01	t-Amyl Methyl ether	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-2-072319	1924076-01	Allyl chloride	7/29/2019	5.0		n	u		5.0	0.47	ug/L
TB-2-072319	1924076-01	Acrylonitrile	7/29/2019	5.0		n	u		5.0	1.5	ug/L
TB-2-072319	1924076-01	Acetone	7/29/2019	10		n	u		10	6.6	ug/L
TB-2-072319	1924076-01	Vinyl chloride	7/29/2019	0.50		n	u		0.50	0.18	ug/L
TB-2-072319	1924076-01	Methyl methacrylate	7/29/2019	5.0		n	u		5.0	1.2	ug/L
TB-2-072319	1924076-01	1,2,4-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	trans-1,4-Dichloro-2-butene	7/29/2019	5.0		n	u		5.0	1.8	ug/L
TB-2-072319	1924076-01	1,2,3-Trichloropropane	7/29/2019	1.0		n	u		1.0	0.78	ug/L
TB-2-072319	1924076-01	Trichlorofluoromethane	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	Trichloroethene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-2-072319	1924076-01	1,1,2-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-2-072319	1924076-01	1,1,1-Trichloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-2-072319	1924076-01	1,2,4-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	1,3,5-Trimethylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	Methacrylonitrile	7/29/2019	10		n	u		10	2.3	ug/L
TB-2-072319	1924076-01	Benzene	7/29/2019	0.50		n	u		0.50	0.11	ug/L
TB-2-072319	1924076-01	o-Xylene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-2-072319	1924076-01	p- & m-Xylenes	7/29/2019	0.50		n	u		0.50	0.34	ug/L
TB-2-072319	1924076-01	Tetrahydrofuran	7/29/2019	20		n	u		20	5.2	ug/L
TB-2-072319	1924076-01	Pentachloroethane	7/29/2019	2.0		n	u	UJ	2.0	0.63	ug/L
TB-2-072319	1924076-01	Methyl isobutyl ketone	7/29/2019	10		n	u		10	2.4	ug/L
TB-2-072319	1924076-01	t-Butyl alcohol	7/29/2019	10		n	u		10	9.4	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-2-072319	1924076-01	Methyl ethyl ketone	7/29/2019	10		n	u		10	3.3	ug/L
TB-2-072319	1924076-01	Carbon disulfide	7/29/2019	1.0		n	u		1.0	0.48	ug/L
TB-2-072319	1924076-01	2-Hexanone	7/29/2019	10		n	u		10	5.0	ug/L
TB-2-072319	1924076-01	Hexachloroethane	7/29/2019	0.50		n	u		0.50	0.11	ug/L
TB-2-072319	1924076-01	Ethyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.32	ug/L
TB-2-072319	1924076-01	Ethyl methacrylate	7/29/2019	4.0		n	u		4.0	1.3	ug/L
TB-2-072319	1924076-01	Diethyl ether	7/29/2019	2.0		n	u		2.0	0.33	ug/L
TB-2-072319	1924076-01	Tetrachloroethene	7/29/2019	0.50		n	u		0.50	0.23	ug/L
TB-2-072319	1924076-01	Methyl iodide	7/29/2019	2.0		n	u		2.0	1.1	ug/L
TB-2-072319	1924076-01	1,3-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
TB-2-072319	1924076-01	1,2,3-Trichlorobenzene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-2-072319	1924076-01	trans-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	cis-1,2-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
TB-2-072319	1924076-01	1,1-Dichloroethene	7/29/2019	0.50		n	u		0.50	0.27	ug/L
TB-2-072319	1924076-01	1,2-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	1,1-Dichloroethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	1,3-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-2-072319	1924076-01	1,4-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	2,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.18	ug/L
TB-2-072319	1924076-01	1,2-Dichlorobenzene	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-2-072319	1924076-01	Dibromomethane	7/29/2019	0.50		n	u		0.50	0.23	ug/L
TB-2-072319	1924076-01	1,2-Dibromoethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
TB-2-072319	1924076-01	1,2-Dibromo-3-chloropropane	7/29/2019	1.0		n	u		1.0	0.89	ug/L
TB-2-072319	1924076-01	Dibromochloromethane	7/29/2019	0.50		n	u		0.50	0.22	ug/L
TB-2-072319	1924076-01	4-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.093	ug/L

SDG: 1924076

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-2-072319	1924076-01	Dichlorodifluoromethane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	p-Isopropyltoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	2-Chlorotoluene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	1,1,2,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	1,1,1,2-Tetrachloroethane	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-2-072319	1924076-01	Styrene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
TB-2-072319	1924076-01	n-Propylbenzene	7/29/2019	0.50		n	u		0.50	0.12	ug/L
TB-2-072319	1924076-01	Naphthalene	7/29/2019	0.50		n	u		0.50	0.16	ug/L
TB-2-072319	1924076-01	1,2-Dichloropropane	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	Methylene chloride	7/29/2019	0.50		n	u		0.50	0.21	ug/L
TB-2-072319	1924076-01	Toluene	7/29/2019	0.50		n	u		0.50	0.17	ug/L
TB-2-072319	1924076-01	Isopropylbenzene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	Hexachlorobutadiene	7/29/2019	0.50		n	u		0.50	0.20	ug/L
TB-2-072319	1924076-01	Ethylbenzene	7/29/2019	0.50		n	u		0.50	0.15	ug/L
TB-2-072319	1924076-01	trans-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.13	ug/L
TB-2-072319	1924076-01	cis-1,3-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.14	ug/L
TB-2-072319	1924076-01	1,1-Dichloropropene	7/29/2019	0.50		n	u		0.50	0.19	ug/L
TB-2-072319	1924076-01	Methyl t-butyl ether	7/29/2019	0.50		n	u		0.50	0.14	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 12, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924233

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-3-072419	1924233-01	Water	07/24/19
MW-3-4	1924233-02	Water	07/24/19
MW-3-3	1924233-03	Water	07/24/19
Dup-2-3Q19	1924233-04	Water	07/24/19
MW-3-2	1924233-05	Water	07/24/19
MW-17-4**	1924233-06**	Water	07/24/19
MW-17-3	1924233-07	Water	07/24/19
MW-17-2	1924233-08	Water	07/24/19
MW-18-5	1924233-09	Water	07/24/19
MW-18-4	1924233-10	Water	07/24/19
MW-18-3	1924233-11	Water	07/24/19
MW-18-2	1924233-12	Water	07/24/19
Dup-3-3Q19	1924233-13	Water	07/24/19
EB-3-0702419	1924233-14	Water	07/24/19

**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
07/30/19	Methyl iodide Pentachloroethane	33.8 65.3	All samples in SDG 1924233	UJ (all non-detects) UJ (all non-detects)	A

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-3-072419 was identified as a trip blank. No contaminants were found.

Sample EB-3-0702419 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-3-3 and Dup-2-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-3-3	Dup-2-3Q19	
1,1-Dichloroethane	0.23	0.20	14

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, 3Q2019
Volatiles - Data Qualification Summary - SDG 1924233

Sample	Compound	Flag	A or P	Reason
TB-3-072419 MW-3-4 MW-3-3 Dup-2-3Q19 MW-3-2 MW-17-4** MW-17-3 MW-17-2 MW-18-5 MW-18-4 MW-18-3 MW-18-2 Dup-3-3Q19 EB-3-0702419	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924233

No Sample Data Qualified in this SDG

LDC #: 45815C1a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/11/19

SDG #: 1924233

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A-A	RSD ≤ 20% .8 ² CV ≤ 30%
IV.	Continuing calibration	A	CV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=14
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	W	D=3+4. 12+13*
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-3-072419	1924233-01	Water	07/24/19
2	MW-3-4	1924233-02	Water	07/24/19
3	MW-3-3	1924233-03	Water	07/24/19
4	Dup-2-3Q19	1924233-04	Water	07/24/19
5	MW-3-2	1924233-05	Water	07/24/19
6	MW-17-4**	1924233-06**	Water	07/24/19
7	MW-17-3	1924233-07	Water	07/24/19
8	MW-17-2	1924233-08	Water	07/24/19
9	MW-18-5	1924233-09	Water	07/24/19
10	MW-18-4	1924233-10	Water	07/24/19
11	MW-18-3	1924233-11	Water	07/24/19
12	MW-18-2	1924233-12	Water	07/24/19
13	Dup-3-3Q19	1924233-13	Water	07/24/19

LDC #: 45815C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1924233

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 9/11/19

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

14	EB-3-0702419	1924233-14	Water	07/24/19
15				
16				
17				

Notes:

B052286-BK1				

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"/>	<u>γ²</u>
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

#	Date	Standard ID	Compound	Finding %D (Limit: \leq 30.0%)	Associated Samples	Qualifications
	7/30/19	29JUL45	Methyl iodide	33.8	All (ND)	J/V
			2222	65.3		

LDC# 45815C19

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	
I	0.23	0.20	14

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2019\45815C1_JPL.wpd

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (10 std)	RRF (10 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL (MS-V5)	7/29/19	K (1st internal standard)	0.9480367	0.9480367	0.9052405	0.9052405	11.69643	11.696
			S (2nd internal standard)	0.3363997	0.3363996	0.3371298	0.3371298	13.20929	13.209
			EE (3rd internal standard)	1.901342	1.901342	1.94415	1.94415	12.29067	12.291
			(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	29JUL44	7/29/19	K (1st internal standard)	0.9052405	0.9023922	0.9023921	0.3	0.3
			S (2nd internal standard)	0.3371298	0.3300006	0.3300006	2.1	2.1
			EE (3rd internal standard)	1.94415	1.744942	1.744942	10.2	10.2
			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: 6

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.00	10.23	102	102	
Bromofluorobenzene		10.28	103	103	
1,2-DCE- 1,2-Dichlorobenzene-d4	↓	11.17	112	112	
Dibromofluoromethane					

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

VALIDATION FINDINGS WORKSHEET
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: B052286-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	27.290	NA	109	109				
Trichloroethene	↓	↓	23.800	↓	95.2	95.2				
Benzene	↓	↓	23.510	↓	94.0	94.0				
Toluene	↓	↓	22.850	↓	91.4	91.4				
Chlorobenzene	↓	↓	24.380	↓	97.5	97.5				

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
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. b, K:

$$\text{Conc.} = \frac{(9207)(10.0)(1)}{(231058)(0.9052405)()}$$

= 0.44 MCL

#	Sample ID	Compound	Reported Concentration	Calculated Concentration	Qualification
	<u>b</u>	<u>K</u>	<u>0.44</u>	()	

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924233

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-4	1924233-02	Water	07/24/19
MW-3-3	1924233-03	Water	07/24/19
Dup-2-3Q19	1924233-04	Water	07/24/19
MW-3-2	1924233-05	Water	07/24/19
MW-17-4**	1924233-06**	Water	07/24/19
MW-17-3	1924233-07	Water	07/24/19
MW-17-2	1924233-08	Water	07/24/19
MW-18-4	1924233-10	Water	07/24/19
MW-18-3	1924233-11	Water	07/24/19
MW-18-2	1924233-12	Water	07/24/19
Dup-3-3Q19	1924233-13	Water	07/24/19
EB-3-0702419	1924233-14	Water	07/24/19
MW-3-4MS	1924233-02MS	Water	07/24/19
MW-3-4MSD	1924233-02MSD	Water	07/24/19
MW-3-4DUP	1924233-02DUP	Water	07/24/19

**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

Sample EB-3-0702419 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 with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-3-4MS/MSD (MW-3-4)	Chromium	133 (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 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-3-3 and Dup-2-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-3-3	Dup-2-3Q19	
Total recoverable 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.

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, 3Q2019
Chromium - Data Qualification Summary - SDG 1924233**

Sample	Analyte	Flag	A or P	Reason
MW-3-4	Chromium	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)

**NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924233**

No Sample Data Qualified in this SDG

LDC #: 45815C4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/19/19

SDG #: 1924233

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: *KU*2nd Reviewer: *J***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 = 13
VII.	Matrix Spike/Matrix Spike Duplicates	SW	MS/D
VIII.	Duplicate sample analysis	A	DUP
IX.	Serial Dilution	N	Not Performed
X.	Laboratory control samples	A	LES
XI.	Field Duplicates	SW	(2, 3), (11, 12)
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-3-4	1924233-02	Water	07/24/19
2	MW-3-3 <i>D₁</i>	1924233-03	Water	07/24/19
3	Dup-2-3Q19 <i>D₁</i>	1924233-04	Water	07/24/19
4	MW-3-2	1924233-05	Water	07/24/19
5	MW-17-4**	1924233-06**	Water	07/24/19
6	MW-17-3	1924233-07	Water	07/24/19
7	MW-17-2	1924233-08	Water	07/24/19
8	MW-18-5	1924233-09	Water	07/24/19
9	MW-18-4	1924233-10	Water	07/24/19
10	MW-18-3	1924233-11	Water	07/24/19
11	MW-18-2 <i>D₂</i>	1924233-12	Water	07/24/19
12	Dup-3-3Q19 <i>D₂</i>	1924233-13	Water	07/24/19
13	EB-3-0702419	1924233-14	Water	07/24/19
14	MW-3-4MS	1924233-02MS	Water	07/24/19
15	MW-3-4MSD	1924233-02MSD	Water	07/24/19

LDC #: 45815C4a **VALIDATION COMPLETENESS WORKSHEET**
SDG #: 1924233 Level III/IV
Laboratory: BC Laboratories, Inc.

Date: 9/5/19
Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Chromium (EPA Method 200.8)

16	MW-3-4DUP	1924233-02DUP	Water	07/24/19
17				
18				
19				

Notes: _____

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

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	/			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	/			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	/			
Were the low standard checks within 70-130%			/	
Were all initial calibration correlation coefficients within limits as specified by the method?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?		/		
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			/	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		/		
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of +/- RL(+/-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#: 45815C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Metals (EPA Method 200.8)

Analyte	Concentration (ug/L)		RPD
	2	3	
Total Recoverable Chromium	1.2	1.2	0

LDC #: 45815C 4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

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

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
7129 13:42 ICV	ICP/MS (Initial calibration)	Cr	50.202	50.0	100	100	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
7129 14:48 CCV #	ICP/MS (Continuing calibration)	Cr	39.949	40.0	99.9	100 99.9	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
tune	Mass Axis	12	11.925	± 0.1 AMU	NA	Y
↓	%RSD	24	2.8	≤ 5% RSD	2.8	Y

Comments:

LDC #: 45815C4a

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	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
<u>LC3</u>	Laboratory control sample	<u>Cr</u>	<u>40.957 $\frac{\mu g}{L}$</u>	<u>40.00 $\frac{\mu g}{L}$</u>	<u>102</u>	<u>102</u>	<u>Y</u>
<u>14</u>	Matrix spike	<u> </u>	<u>(SSR-SR)</u> <u>53.37 $\frac{\mu g}{L}$</u>	<u>40.00 $\frac{\mu g}{L}$</u>	<u>133</u>	<u>133</u>	<u>Y</u>
<u>19</u>	Duplicate	<u> </u>	<u>88.263 $\frac{\mu g}{L}$</u>	<u>100.80 $\frac{\mu g}{L}$</u>	<u>13.3</u>	<u>13.3</u>	<u>Y</u>
<u>PDS</u>	Post digestion spike	<u>✓</u>	<u>38.859 $\frac{\mu g}{L}$</u>	<u>40.00 $\frac{\mu g}{L}$</u>	<u>97.1</u>	<u>100 97.1</u>	<u>Y</u>
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924233

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-3-4	1924233-02	Water	07/24/19
MW-3-3	1924233-03	Water	07/24/19
Dup-2-3Q19	1924233-04	Water	07/24/19
MW-3-2	1924233-05	Water	07/24/19
MW-17-4**	1924233-06**	Water	07/24/19
MW-17-3	1924233-07	Water	07/24/19
MW-17-2	1924233-08	Water	07/24/19
MW-18-5	1924233-09	Water	07/24/19
MW-18-4	1924233-10	Water	07/24/19
MW-18-3	1924233-11	Water	07/24/19
MW-18-2	1924233-12	Water	07/24/19
Dup-3-3Q19	1924233-13	Water	07/24/19
EB-3-0702419	1924233-14	Water	07/24/19
MW-17-4MS	1924233-06MS	Water	07/24/19
MW-17-4MSD	1924233-06MSD	Water	07/24/19
MW-17-4DUP	1924233-06DUP	Water	07/24/19

**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:

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-3-0702419 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-3-3 and Dup-2-3Q19 and samples MW-18-2 and Dup-3-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-3-3	Dup-2-3Q19	
Hexavalent chromium	0.0014 mg/L	0.0014 mg/L	0
Perchlorate	1.4 ug/L	1.3 ug/L	7

Analyte	Concentration (mg/L)		RPD
	MW-18-2	Dup-3-3Q19	
Hexavalent chromium	0.000045	0.000038	17

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, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924233

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924233

No Sample Data Qualified in this SDG

LDC #: 45815C6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/5/19

SDG #: 1924233

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: KIK

2nd Reviewer: J

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
VI.	Matrix Spike/Matrix Spike Duplicates	A	MSID
VII.	Duplicate sample analysis	A	DWP
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(2,3), (11,12)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-3-4	1924233-02	Water	07/24/19
2	MW-3-3 D ₁	1924233-03	Water	07/24/19
3	Dup-2-3Q19 D ₁	1924233-04	Water	07/24/19
4	MW-3-2	1924233-05	Water	07/24/19
5	MW-17-4**	1924233-06**	Water	07/24/19
6	MW-17-3	1924233-07	Water	07/24/19
7	MW-17-2	1924233-08	Water	07/24/19
8	MW-18-5	1924233-09	Water	07/24/19
9	MW-18-4	1924233-10	Water	07/24/19
10	MW-18-3	1924233-11	Water	07/24/19
11	MW-18-2 D ₂	1924233-12	Water	07/24/19
12	Dup-3-3Q19 D ₂	1924233-13	Water	07/24/19
13	EB-3-0702419 D ₂	1924233-14	Water	07/24/19
14	MW-17-4MS	1924233-06MS	Water	07/24/19
15	MW-17-4MSD	1924233-06MSD	Water	07/24/19
16	MW-17-4DUP	1924233-06DUP	Water	07/24/19
17				

VALIDATION FINDINGS CHECKLIST

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial calibration correlation coefficients ≥ 0.995 ?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? <u>89-115</u>	/			
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?			/	

LDC #: 4581506

VALIDATION FINDINGS CHECKLIST

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

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

LDC#: 45815C6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Inorganics (See cover)

Analyte	Concentration		RPD
	2	3	
Hexavalent Chromium	0.0014 mg/L	0.0014 mg/L	0
Perchlorate	1.4 ug/L	1.3 ug/L	7

Analyte	Concentration		RPD
	11	12	
Hexavalent Chromium	0.000045 mg/L	0.000038 mg/L	17

LDC #: 4581566

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 7/22/19

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	Found Conc. (mg/L)	True Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr6+	s1	0.2	0.022	0.999867	0.999825	Y
		s2	2	0.2330			
		s3	10	1.189			
		s4	25	3.008			
		s5	50	5.846			
Calibration verification	Cr6+	7/28 12:12 ICV	26.090	25.0	104	104	Y
Calibration verification	Cr6+	7/28 17:58 CCV3	26.265	25.0	105	105	Y
Calibration verification	ClO ₄	8/6 21:23 CCV3	9.6432	10.0	96.4	96.4	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 #: 45815C6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: KIK
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	
<u>103</u>	Laboratory control sample	<u>ClO₄</u>	<u>10.5489 $\frac{\mu g}{L}$</u>	<u>10.0 $\frac{\mu g}{L}$</u>	<u>105</u>	<u>105</u>	<u>Y</u>
<u>14</u>	Matrix spike sample	<u>Cr6⁺</u>	(SSR-SR) <u>0.020503 mg/L</u>	<u>0.020202 mg/L</u>	<u>102</u>	<u>102</u>	<u>Y</u>
<u>16</u>	Duplicate sample	<u>Cr6⁺</u>	<u>0.001440 mg/L</u>	<u>0.0014410 mg/L</u>	<u>0.0694</u>	<u>0.0694</u>	<u>Y</u>

Comments: _____

NASA JPL, 3Q2019 - LDC# 45815C

SDG: 1924233

Analytical Method		EPA-200.8									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-2-3Q19	1924233-04	Total Recoverable Chromium	7/29/2019	1.2	Y	y	v j		3.0	0.50	ug/L
Dup-3-3Q19	1924233-13	Total Recoverable Chromium	7/29/2019	3.0	Y	n	u		3.0	0.50	ug/L
EB-3-072419	1924233-14	Total Recoverable Chromium	7/29/2019	3.0	Y	n	u		3.0	0.50	ug/L
MW-17-2	1924233-08	Total Recoverable Chromium	7/29/2019	3.0	Y	n	u		3.0	0.50	ug/L
MW-17-3	1924233-07	Total Recoverable Chromium	7/29/2019	3.0	Y	n	u		3.0	0.50	ug/L
MW-17-4	1924233-06	Total Recoverable Chromium	7/29/2019	0.75	Y	y	v j		3.0	0.50	ug/L
MW-18-2	1924233-12	Total Recoverable Chromium	7/29/2019	3.0	Y	n	u		3.0	0.50	ug/L
MW-18-3	1924233-11	Total Recoverable Chromium	7/29/2019	1.6	Y	y	v j		3.0	0.50	ug/L
MW-18-4	1924233-10	Total Recoverable Chromium	7/29/2019	3.2	Y	y	v		3.0	0.50	ug/L
MW-3-2	1924233-05	Total Recoverable Chromium	7/29/2019	3.0	Y	n	u		3.0	0.50	ug/L
MW-3-3	1924233-03	Total Recoverable Chromium	7/29/2019	1.2	Y	y	v j		3.0	0.50	ug/L
MW-3-4	1924233-02	Total Recoverable Chromium	7/29/2019	47	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-2-3Q19	1924233-04	Hexavalent Chromium	7/25/2019	0.0014	Y	y	v		0.0002	0.0000	mg/L
Dup-3-3Q19	1924233-13	Hexavalent Chromium	7/25/2019	0.0000	Y	y	v j		0.0002	0.0000	mg/L
EB-3-072419	1924233-14	Hexavalent Chromium	7/25/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-17-2	1924233-08	Hexavalent Chromium	7/25/2019	0.0000	Y	y	v j		0.0002	0.0000	mg/L
MW-17-3	1924233-07	Hexavalent Chromium	7/25/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-17-4	1924233-06	Hexavalent Chromium	7/25/2019	0.0014	Y	y	v		0.0002	0.0000	mg/L
MW-18-2	1924233-12	Hexavalent Chromium	7/25/2019	0.0000	Y	y	v j		0.0002	0.0000	mg/L
MW-18-3	1924233-11	Hexavalent Chromium	7/25/2019	0.0015	Y	y	v		0.0002	0.0000	mg/L
MW-18-4	1924233-10	Hexavalent Chromium	7/25/2019	0.0021	Y	y	v		0.0002	0.0000	mg/L

SDG: 1924233

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-3-2	1924233-05	Hexavalent Chromium	7/25/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-3-3	1924233-03	Hexavalent Chromium	7/25/2019	0.0014	Y	y	v		0.0002	0.0000	mg/L
MW-3-4	1924233-02	Hexavalent Chromium	7/25/2019	0.0000	Y	y	v j		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-2-3Q19	1924233-04	Perchlorate	8/9/2019	1.3	Y	y	v j		4.0	0.76	ug/L
Dup-3-3Q19	1924233-13	Perchlorate	8/6/2019	4.0	Y	n	u		4.0	0.76	ug/L
EB-3-072419	1924233-14	Perchlorate	8/6/2019	4.0	Y	n	u		4.0	0.76	ug/L
MW-17-2	1924233-08	Perchlorate	8/6/2019	4.0	Y	n	u		4.0	0.76	ug/L
MW-17-3	1924233-07	Perchlorate	8/9/2019	5.5	Y	y	v		4.0	0.76	ug/L
MW-17-4	1924233-06	Perchlorate	8/6/2019	4.4	Y	y	v		4.0	0.76	ug/L
MW-18-2	1924233-12	Perchlorate	8/6/2019	4.0	Y	n	u		4.0	0.76	ug/L
MW-18-3	1924233-11	Perchlorate	8/6/2019	3.0	Y	y	v j		4.0	0.76	ug/L
MW-18-4	1924233-10	Perchlorate	8/6/2019	16	Y	y	v		4.0	0.76	ug/L
MW-18-5	1924233-09	Perchlorate	8/6/2019	4.0	Y	n	u		4.0	0.76	ug/L
MW-3-2	1924233-05	Perchlorate	8/6/2019	4.0	Y	n	u		4.0	0.76	ug/L
MW-3-3	1924233-03	Perchlorate	8/9/2019	1.4	Y	y	v j		4.0	0.76	ug/L
MW-3-4	1924233-02	Perchlorate	8/9/2019	1.1	Y	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
Dup-2-3Q19	1924233-04	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-2-3Q19	1924233-04	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	1,1-Dichloroethane	7/30/2019	0.20	Y	y	v j		0.50	0.15	ug/L

SDG: 1924233

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-2-3Q19	1924233-04	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-2-3Q19	1924233-04	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
Dup-2-3Q19	1924233-04	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
Dup-2-3Q19	1924233-04	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
Dup-2-3Q19	1924233-04	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
Dup-2-3Q19	1924233-04	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-2-3Q19	1924233-04	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-2-3Q19	1924233-04	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-2-3Q19	1924233-04	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
Dup-2-3Q19	1924233-04	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-2-3Q19	1924233-04	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
Dup-2-3Q19	1924233-04	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
Dup-2-3Q19	1924233-04	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-2-3Q19	1924233-04	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
Dup-2-3Q19	1924233-04	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-2-3Q19	1924233-04	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
Dup-2-3Q19	1924233-04	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-2-3Q19	1924233-04	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
Dup-2-3Q19	1924233-04	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L

SDG: 1924233

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-2-3Q19	1924233-04	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
Dup-2-3Q19	1924233-04	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
Dup-2-3Q19	1924233-04	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
Dup-2-3Q19	1924233-04	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
Dup-2-3Q19	1924233-04	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
Dup-2-3Q19	1924233-04	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
Dup-2-3Q19	1924233-04	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
Dup-2-3Q19	1924233-04	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
Dup-2-3Q19	1924233-04	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
Dup-2-3Q19	1924233-04	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
Dup-2-3Q19	1924233-04	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
Dup-2-3Q19	1924233-04	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
Dup-2-3Q19	1924233-04	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
Dup-2-3Q19	1924233-04	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
Dup-2-3Q19	1924233-04	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
Dup-2-3Q19	1924233-04	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
Dup-2-3Q19	1924233-04	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-2-3Q19	1924233-04	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
Dup-2-3Q19	1924233-04	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-2-3Q19	1924233-04	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
Dup-2-3Q19	1924233-04	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
Dup-2-3Q19	1924233-04	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
Dup-2-3Q19	1924233-04	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-2-3Q19	1924233-04	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
Dup-2-3Q19	1924233-04	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
Dup-2-3Q19	1924233-04	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
Dup-2-3Q19	1924233-04	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
Dup-2-3Q19	1924233-04	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
Dup-2-3Q19	1924233-04	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
Dup-2-3Q19	1924233-04	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
Dup-2-3Q19	1924233-04	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-2-3Q19	1924233-04	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-2-3Q19	1924233-04	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
Dup-2-3Q19	1924233-04	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
Dup-2-3Q19	1924233-04	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
Dup-2-3Q19	1924233-04	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-2-3Q19	1924233-04	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
Dup-2-3Q19	1924233-04	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-2-3Q19	1924233-04	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
Dup-2-3Q19	1924233-04	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-2-3Q19	1924233-04	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
Dup-2-3Q19	1924233-04	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
Dup-2-3Q19	1924233-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-2-3Q19	1924233-04	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-2-3Q19	1924233-04	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-2-3Q19	1924233-04	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
Dup-2-3Q19	1924233-04	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
Dup-2-3Q19	1924233-04	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
Dup-2-3Q19	1924233-04	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
Dup-2-3Q19	1924233-04	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
Dup-2-3Q19	1924233-04	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-2-3Q19	1924233-04	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
Dup-3-3Q19	1924233-13	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
Dup-3-3Q19	1924233-13	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q19	1924233-13	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
Dup-3-3Q19	1924233-13	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
Dup-3-3Q19	1924233-13	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
Dup-3-3Q19	1924233-13	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
Dup-3-3Q19	1924233-13	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
Dup-3-3Q19	1924233-13	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
Dup-3-3Q19	1924233-13	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
Dup-3-3Q19	1924233-13	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
Dup-3-3Q19	1924233-13	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
Dup-3-3Q19	1924233-13	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-3-3Q19	1924233-13	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-3Q19	1924233-13	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
Dup-3-3Q19	1924233-13	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
Dup-3-3Q19	1924233-13	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
Dup-3-3Q19	1924233-13	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
Dup-3-3Q19	1924233-13	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
Dup-3-3Q19	1924233-13	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
Dup-3-3Q19	1924233-13	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
Dup-3-3Q19	1924233-13	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-3-3Q19	1924233-13	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
Dup-3-3Q19	1924233-13	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
Dup-3-3Q19	1924233-13	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
Dup-3-3Q19	1924233-13	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
Dup-3-3Q19	1924233-13	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
Dup-3-3Q19	1924233-13	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
Dup-3-3Q19	1924233-13	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
Dup-3-3Q19	1924233-13	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
Dup-3-3Q19	1924233-13	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
Dup-3-3Q19	1924233-13	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
Dup-3-3Q19	1924233-13	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
Dup-3-3Q19	1924233-13	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-3Q19	1924233-13	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
Dup-3-3Q19	1924233-13	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
Dup-3-3Q19	1924233-13	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q19	1924233-13	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
Dup-3-3Q19	1924233-13	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
Dup-3-3Q19	1924233-13	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-3-3Q19	1924233-13	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
Dup-3-3Q19	1924233-13	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
Dup-3-3Q19	1924233-13	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q19	1924233-13	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q19	1924233-13	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q19	1924233-13	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q19	1924233-13	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
Dup-3-3Q19	1924233-13	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
Dup-3-3Q19	1924233-13	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
Dup-3-3Q19	1924233-13	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q19	1924233-13	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-3-3Q19	1924233-13	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
Dup-3-3Q19	1924233-13	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
Dup-3-3Q19	1924233-13	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
Dup-3-3Q19	1924233-13	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
Dup-3-3Q19	1924233-13	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
Dup-3-3Q19	1924233-13	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
Dup-3-3Q19	1924233-13	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
Dup-3-3Q19	1924233-13	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
Dup-3-3Q19	1924233-13	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
Dup-3-3Q19	1924233-13	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
Dup-3-3Q19	1924233-13	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
Dup-3-3Q19	1924233-13	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
Dup-3-3Q19	1924233-13	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
Dup-3-3Q19	1924233-13	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
Dup-3-3Q19	1924233-13	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
Dup-3-3Q19	1924233-13	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
EB-3-072419	1924233-14	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
EB-3-072419	1924233-14	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
EB-3-072419	1924233-14	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
EB-3-072419	1924233-14	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-072419	1924233-14	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
EB-3-072419	1924233-14	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
EB-3-072419	1924233-14	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
EB-3-072419	1924233-14	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
EB-3-072419	1924233-14	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
EB-3-072419	1924233-14	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
EB-3-072419	1924233-14	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
EB-3-072419	1924233-14	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
EB-3-072419	1924233-14	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
EB-3-072419	1924233-14	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
EB-3-072419	1924233-14	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
EB-3-072419	1924233-14	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
EB-3-072419	1924233-14	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
EB-3-072419	1924233-14	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
EB-3-072419	1924233-14	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
EB-3-072419	1924233-14	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
EB-3-072419	1924233-14	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
EB-3-072419	1924233-14	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
EB-3-072419	1924233-14	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
EB-3-072419	1924233-14	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
EB-3-072419	1924233-14	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
EB-3-072419	1924233-14	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
EB-3-072419	1924233-14	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L

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EB-3-072419	1924233-14	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
EB-3-072419	1924233-14	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
EB-3-072419	1924233-14	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
EB-3-072419	1924233-14	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
EB-3-072419	1924233-14	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
EB-3-072419	1924233-14	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
EB-3-072419	1924233-14	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
EB-3-072419	1924233-14	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
EB-3-072419	1924233-14	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
EB-3-072419	1924233-14	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
EB-3-072419	1924233-14	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
EB-3-072419	1924233-14	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
EB-3-072419	1924233-14	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
EB-3-072419	1924233-14	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
EB-3-072419	1924233-14	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
EB-3-072419	1924233-14	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
EB-3-072419	1924233-14	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
EB-3-072419	1924233-14	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
EB-3-072419	1924233-14	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
EB-3-072419	1924233-14	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
EB-3-072419	1924233-14	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
EB-3-072419	1924233-14	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
EB-3-072419	1924233-14	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-3-072419	1924233-14	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
EB-3-072419	1924233-14	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
EB-3-072419	1924233-14	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
EB-3-072419	1924233-14	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
EB-3-072419	1924233-14	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
EB-3-072419	1924233-14	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
EB-3-072419	1924233-14	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
EB-3-072419	1924233-14	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
EB-3-072419	1924233-14	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
EB-3-072419	1924233-14	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
EB-3-072419	1924233-14	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
EB-3-072419	1924233-14	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
EB-3-072419	1924233-14	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
EB-3-072419	1924233-14	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
EB-3-072419	1924233-14	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
EB-3-072419	1924233-14	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
EB-3-072419	1924233-14	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L

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EB-3-072419	1924233-14	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
EB-3-072419	1924233-14	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
EB-3-072419	1924233-14	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
EB-3-072419	1924233-14	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
EB-3-072419	1924233-14	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
EB-3-072419	1924233-14	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-2	1924233-08	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-2	1924233-08	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-2	1924233-08	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-2	1924233-08	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-2	1924233-08	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-2	1924233-08	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-2	1924233-08	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-2	1924233-08	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-2	1924233-08	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-2	1924233-08	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-2	1924233-08	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-2	1924233-08	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-2	1924233-08	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-2	1924233-08	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-2	1924233-08	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-17-2	1924233-08	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-17-2	1924233-08	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-2	1924233-08	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-17-2	1924233-08	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-17-2	1924233-08	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-17-2	1924233-08	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-17-2	1924233-08	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-2	1924233-08	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-17-2	1924233-08	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-2	1924233-08	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-17-2	1924233-08	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-2	1924233-08	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-17-2	1924233-08	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-17-2	1924233-08	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-17-2	1924233-08	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-2	1924233-08	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-17-2	1924233-08	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-17-2	1924233-08	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-2	1924233-08	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-17-2	1924233-08	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-17-2	1924233-08	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-17-2	1924233-08	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-2	1924233-08	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-17-2	1924233-08	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-17-2	1924233-08	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-17-2	1924233-08	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-17-2	1924233-08	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-17-2	1924233-08	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-17-2	1924233-08	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-2	1924233-08	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-17-2	1924233-08	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-2	1924233-08	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-17-2	1924233-08	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-17-2	1924233-08	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-2	1924233-08	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-2	1924233-08	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-17-2	1924233-08	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-2	1924233-08	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-2	1924233-08	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-2	1924233-08	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-17-2	1924233-08	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-2	1924233-08	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-17-2	1924233-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-2	1924233-08	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-2	1924233-08	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-17-2	1924233-08	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-17-2	1924233-08	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-17-2	1924233-08	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-2	1924233-08	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-17-2	1924233-08	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-3	1924233-07	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-3	1924233-07	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-3	1924233-07	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-3	1924233-07	1,1-Dichloroethane	7/30/2019	0.18	Y	y	v j		0.50	0.15	ug/L
MW-17-3	1924233-07	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-3	1924233-07	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-3	1924233-07	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-3	1924233-07	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-3	1924233-07	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-3	1924233-07	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-17-3	1924233-07	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-3	1924233-07	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-3	1924233-07	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-3	1924233-07	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-3	1924233-07	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-3	1924233-07	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-3	1924233-07	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-3	1924233-07	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-3	1924233-07	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-17-3	1924233-07	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-3	1924233-07	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-3	1924233-07	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-3	1924233-07	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-3	1924233-07	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-17-3	1924233-07	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-3	1924233-07	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-3	1924233-07	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-3	1924233-07	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-3	1924233-07	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-17-3	1924233-07	Chloroform	7/30/2019	0.38	Y	y	v j		0.50	0.14	ug/L
MW-17-3	1924233-07	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-3	1924233-07	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-17-3	1924233-07	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-17-3	1924233-07	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-17-3	1924233-07	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-17-3	1924233-07	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-17-3	1924233-07	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-3	1924233-07	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-17-3	1924233-07	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-17-3	1924233-07	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-17-3	1924233-07	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-3	1924233-07	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-17-3	1924233-07	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-17-3	1924233-07	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-17-3	1924233-07	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-3	1924233-07	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-17-3	1924233-07	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-17-3	1924233-07	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-3	1924233-07	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-17-3	1924233-07	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-3	1924233-07	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-17-3	1924233-07	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-3	1924233-07	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-17-3	1924233-07	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-17-3	1924233-07	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-17-3	1924233-07	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-17-3	1924233-07	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-17-3	1924233-07	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-17-3	1924233-07	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-17-3	1924233-07	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-3	1924233-07	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-3	1924233-07	Tetrachloroethene	7/30/2019	0.31	Y	y	v j		0.50	0.23	ug/L
MW-17-3	1924233-07	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-3	1924233-07	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-3	1924233-07	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-3	1924233-07	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-3	1924233-07	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-17-3	1924233-07	Trichloroethene	7/30/2019	1.9	Y	y	v		0.50	0.19	ug/L
MW-17-3	1924233-07	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-17-3	1924233-07	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-17-3	1924233-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-3	1924233-07	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-3	1924233-07	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-3	1924233-07	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-3	1924233-07	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-17-3	1924233-07	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-17-3	1924233-07	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-3	1924233-07	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-17-3	1924233-07	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-3	1924233-07	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-17-4	1924233-06	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-17-4	1924233-06	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-17-4	1924233-06	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-17-4	1924233-06	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-17-4	1924233-06	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-17-4	1924233-06	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-17-4	1924233-06	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-17-4	1924233-06	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-4	1924233-06	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-17-4	1924233-06	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-17-4	1924233-06	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-17-4	1924233-06	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-17-4	1924233-06	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-17-4	1924233-06	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-17-4	1924233-06	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-17-4	1924233-06	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-4	1924233-06	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-17-4	1924233-06	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-4	1924233-06	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-17-4	1924233-06	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-17-4	1924233-06	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-4	1924233-06	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-17-4	1924233-06	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-17-4	1924233-06	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-17-4	1924233-06	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-4	1924233-06	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-4	1924233-06	Tetrachloroethene	7/30/2019	0.23	Y	y	v j		0.50	0.23	ug/L
MW-17-4	1924233-06	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-4	1924233-06	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-4	1924233-06	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-4	1924233-06	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-4	1924233-06	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-17-4	1924233-06	Trichloroethene	7/30/2019	0.58	Y	y	v		0.50	0.19	ug/L
MW-17-4	1924233-06	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-17-4	1924233-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-4	1924233-06	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-4	1924233-06	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-4	1924233-06	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-17-4	1924233-06	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-17-4	1924233-06	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-4	1924233-06	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-17-4	1924233-06	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-17-4	1924233-06	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-17-4	1924233-06	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-4	1924233-06	Chloroform	7/30/2019	0.44	Y	y	v j		0.50	0.14	ug/L
MW-17-4	1924233-06	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-4	1924233-06	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-4	1924233-06	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-4	1924233-06	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-17-4	1924233-06	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-4	1924233-06	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-4	1924233-06	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-17-4	1924233-06	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-4	1924233-06	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-4	1924233-06	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-17-4	1924233-06	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-17-4	1924233-06	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-17-4	1924233-06	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-17-4	1924233-06	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-17-4	1924233-06	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-17-4	1924233-06	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-17-4	1924233-06	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-17-4	1924233-06	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-17-4	1924233-06	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-4	1924233-06	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-17-4	1924233-06	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-17-4	1924233-06	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-17-4	1924233-06	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-17-4	1924233-06	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-17-4	1924233-06	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-17-4	1924233-06	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-17-4	1924233-06	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-4	1924233-06	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-17-4	1924233-06	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-18-2	1924233-12	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-18-2	1924233-12	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-2	1924233-12	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-2	1924233-12	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-2	1924233-12	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-2	1924233-12	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-2	1924233-12	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-2	1924233-12	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-2	1924233-12	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-18-2	1924233-12	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-2	1924233-12	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-2	1924233-12	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-2	1924233-12	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-2	1924233-12	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-2	1924233-12	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-18-2	1924233-12	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-2	1924233-12	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-2	1924233-12	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-18-2	1924233-12	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-18-2	1924233-12	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-18-2	1924233-12	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-18-2	1924233-12	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-18-2	1924233-12	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-18-2	1924233-12	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-2	1924233-12	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-2	1924233-12	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-18-2	1924233-12	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-18-2	1924233-12	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-2	1924233-12	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-18-2	1924233-12	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-18-2	1924233-12	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-18-2	1924233-12	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-18-2	1924233-12	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-18-2	1924233-12	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-18-2	1924233-12	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-18-2	1924233-12	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-18-2	1924233-12	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-2	1924233-12	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-18-2	1924233-12	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-18-2	1924233-12	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-18-2	1924233-12	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-2	1924233-12	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-18-2	1924233-12	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-18-2	1924233-12	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-2	1924233-12	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-18-2	1924233-12	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-2	1924233-12	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-2	1924233-12	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-2	1924233-12	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-2	1924233-12	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-2	1924233-12	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-2	1924233-12	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-2	1924233-12	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-2	1924233-12	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-2	1924233-12	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-2	1924233-12	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-2	1924233-12	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-2	1924233-12	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-2	1924233-12	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-2	1924233-12	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-2	1924233-12	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-2	1924233-12	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-2	1924233-12	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-2	1924233-12	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-2	1924233-12	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-2	1924233-12	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-2	1924233-12	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-3	1924233-11	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-3	1924233-11	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-18-3	1924233-11	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-3	1924233-11	Chloroform	7/30/2019	0.14	Y	y	v j		0.50	0.14	ug/L
MW-18-3	1924233-11	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-3	1924233-11	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-18-3	1924233-11	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-18-3	1924233-11	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-3	1924233-11	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-18-3	1924233-11	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-3	1924233-11	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-3	1924233-11	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-3	1924233-11	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-3	1924233-11	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-18-3	1924233-11	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-3	1924233-11	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1924233-11	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-3	1924233-11	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-18-3	1924233-11	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-18-3	1924233-11	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-3	1924233-11	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-18-3	1924233-11	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-3	1924233-11	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-18-3	1924233-11	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-18-3	1924233-11	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-18-3	1924233-11	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-18-3	1924233-11	Carbon tetrachloride	7/30/2019	0.32	Y	y	v j		0.50	0.17	ug/L
MW-18-3	1924233-11	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-18-3	1924233-11	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-3	1924233-11	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-3	1924233-11	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-3	1924233-11	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-3	1924233-11	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-3	1924233-11	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-18-3	1924233-11	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-3	1924233-11	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-3	1924233-11	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-18-3	1924233-11	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1924233-11	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-3	1924233-11	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-3	1924233-11	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-3	1924233-11	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-3	1924233-11	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-3	1924233-11	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-3	1924233-11	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-3	1924233-11	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-3	1924233-11	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-18-3	1924233-11	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-3	1924233-11	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-3	1924233-11	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-3	1924233-11	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-3	1924233-11	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-3	1924233-11	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-3	1924233-11	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-18-3	1924233-11	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-3	1924233-11	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-18-3	1924233-11	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-3	1924233-11	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-18-3	1924233-11	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-18-3	1924233-11	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-18-3	1924233-11	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-18-3	1924233-11	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-3	1924233-11	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-18-3	1924233-11	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-18-3	1924233-11	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-18-3	1924233-11	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-3	1924233-11	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-3	1924233-11	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-3	1924233-11	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-18-3	1924233-11	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-3	1924233-11	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-3	1924233-11	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-3	1924233-11	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-4	1924233-10	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-18-4	1924233-10	Trichloroethene	7/30/2019	0.58	Y	y	v		0.50	0.19	ug/L
MW-18-4	1924233-10	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-4	1924233-10	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-4	1924233-10	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-4	1924233-10	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-4	1924233-10	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1924233-10	Tetrachloroethene	7/30/2019	0.45	Y	y	v j		0.50	0.23	ug/L
MW-18-4	1924233-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-4	1924233-10	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-4	1924233-10	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-4	1924233-10	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-4	1924233-10	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-4	1924233-10	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-18-4	1924233-10	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-4	1924233-10	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-4	1924233-10	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-4	1924233-10	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-18-4	1924233-10	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-18-4	1924233-10	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-18-4	1924233-10	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-18-4	1924233-10	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-4	1924233-10	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-4	1924233-10	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-18-4	1924233-10	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-18-4	1924233-10	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-18-4	1924233-10	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-4	1924233-10	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-18-4	1924233-10	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-4	1924233-10	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-4	1924233-10	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1924233-10	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-4	1924233-10	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-4	1924233-10	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-4	1924233-10	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-4	1924233-10	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-4	1924233-10	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-18-4	1924233-10	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-4	1924233-10	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-4	1924233-10	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-18-4	1924233-10	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-4	1924233-10	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-4	1924233-10	Chloroform	7/30/2019	0.58	Y	y	v		0.50	0.14	ug/L
MW-18-4	1924233-10	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-4	1924233-10	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-4	1924233-10	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-4	1924233-10	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-4	1924233-10	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	Carbon tetrachloride	7/30/2019	0.99	Y	y	v		0.50	0.17	ug/L
MW-18-4	1924233-10	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-4	1924233-10	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-4	1924233-10	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-4	1924233-10	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-4	1924233-10	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1924233-10	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-4	1924233-10	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-4	1924233-10	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-4	1924233-10	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-4	1924233-10	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-4	1924233-10	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-4	1924233-10	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-4	1924233-10	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-4	1924233-10	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-18-4	1924233-10	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-18-4	1924233-10	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-18-4	1924233-10	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-18-4	1924233-10	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-18-4	1924233-10	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-4	1924233-10	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-18-4	1924233-10	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-18-4	1924233-10	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-18-4	1924233-10	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-18-4	1924233-10	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-18-4	1924233-10	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-18-4	1924233-10	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-4	1924233-10	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-18-4	1924233-10	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-4	1924233-10	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-18-4	1924233-10	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-18-4	1924233-10	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-18-4	1924233-10	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-5	1924233-09	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-5	1924233-09	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-5	1924233-09	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-5	1924233-09	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-5	1924233-09	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-5	1924233-09	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-5	1924233-09	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-5	1924233-09	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-18-5	1924233-09	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-18-5	1924233-09	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-18-5	1924233-09	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-18-5	1924233-09	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-5	1924233-09	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-18-5	1924233-09	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-18-5	1924233-09	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-18-5	1924233-09	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-18-5	1924233-09	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-18-5	1924233-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-5	1924233-09	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-5	1924233-09	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-18-5	1924233-09	Acrylonitrile	7/30/2019	1.6	Y	y	v j		5.0	1.5	ug/L
MW-18-5	1924233-09	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-18-5	1924233-09	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-5	1924233-09	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-5	1924233-09	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-18-5	1924233-09	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-18-5	1924233-09	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-5	1924233-09	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-5	1924233-09	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-18-5	1924233-09	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-5	1924233-09	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-18-5	1924233-09	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-5	1924233-09	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-18-5	1924233-09	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-18-5	1924233-09	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-5	1924233-09	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-5	1924233-09	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-5	1924233-09	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-18-5	1924233-09	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-18-5	1924233-09	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-5	1924233-09	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-18-5	1924233-09	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-18-5	1924233-09	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-18-5	1924233-09	Styrene	7/30/2019	0.15	Y	y	v j		0.50	0.12	ug/L
MW-18-5	1924233-09	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-18-5	1924233-09	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-18-5	1924233-09	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-18-5	1924233-09	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-18-5	1924233-09	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-18-5	1924233-09	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-18-5	1924233-09	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-18-5	1924233-09	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-18-5	1924233-09	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-18-5	1924233-09	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-18-5	1924233-09	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-18-5	1924233-09	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-18-5	1924233-09	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-18-5	1924233-09	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-18-5	1924233-09	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-18-5	1924233-09	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-18-5	1924233-09	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-18-5	1924233-09	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-18-5	1924233-09	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-18-5	1924233-09	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-18-5	1924233-09	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-2	1924233-05	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-2	1924233-05	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-2	1924233-05	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-2	1924233-05	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-2	1924233-05	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1924233-05	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-2	1924233-05	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-2	1924233-05	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-3-2	1924233-05	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-2	1924233-05	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-2	1924233-05	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-2	1924233-05	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-2	1924233-05	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-3-2	1924233-05	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-2	1924233-05	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-2	1924233-05	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-3-2	1924233-05	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-2	1924233-05	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-3-2	1924233-05	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-3-2	1924233-05	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-3-2	1924233-05	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1924233-05	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-2	1924233-05	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-2	1924233-05	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-3-2	1924233-05	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-2	1924233-05	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-3-2	1924233-05	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-2	1924233-05	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-2	1924233-05	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-3-2	1924233-05	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-2	1924233-05	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-3-2	1924233-05	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-3-2	1924233-05	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-2	1924233-05	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-3-2	1924233-05	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-3-2	1924233-05	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-2	1924233-05	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-3-2	1924233-05	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-3-2	1924233-05	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1924233-05	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-3-2	1924233-05	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-3-2	1924233-05	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-3-2	1924233-05	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-3-2	1924233-05	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-2	1924233-05	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-3-2	1924233-05	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-3-2	1924233-05	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-2	1924233-05	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-3-2	1924233-05	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-3-2	1924233-05	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-3-2	1924233-05	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-3-2	1924233-05	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-3-2	1924233-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-2	1924233-05	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-2	1924233-05	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-2	1924233-05	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-3-2	1924233-05	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-3-2	1924233-05	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-3-2	1924233-05	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-2	1924233-05	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-3-2	1924233-05	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-3-2	1924233-05	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-2	1924233-05	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-2	1924233-05	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-3-2	1924233-05	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-2	1924233-05	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-3	1924233-03	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	1,1-Dichloroethane	7/30/2019	0.23	Y	y	v j		0.50	0.15	ug/L
MW-3-3	1924233-03	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-3	1924233-03	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-3	1924233-03	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-3	1924233-03	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-3	1924233-03	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-3	1924233-03	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-3	1924233-03	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-3-3	1924233-03	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-3	1924233-03	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-3	1924233-03	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-3	1924233-03	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1924233-03	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-3	1924233-03	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-3	1924233-03	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-3	1924233-03	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
MW-3-3	1924233-03	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-3	1924233-03	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-3	1924233-03	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-3	1924233-03	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-3	1924233-03	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-3	1924233-03	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-3	1924233-03	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-3	1924233-03	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-3-3	1924233-03	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-3-3	1924233-03	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-3-3	1924233-03	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-3-3	1924233-03	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-3-3	1924233-03	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-3-3	1924233-03	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-3-3	1924233-03	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-3-3	1924233-03	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-3	1924233-03	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1924233-03	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-3-3	1924233-03	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-3-3	1924233-03	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-3-3	1924233-03	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-3	1924233-03	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-3-3	1924233-03	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-3-3	1924233-03	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-3	1924233-03	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-3	1924233-03	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-3-3	1924233-03	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-3	1924233-03	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-3-3	1924233-03	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-3-3	1924233-03	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-3	1924233-03	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-3	1924233-03	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-3-3	1924233-03	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-3	1924233-03	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-3	1924233-03	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-3-3	1924233-03	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-3	1924233-03	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-3-3	1924233-03	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-3	1924233-03	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-3-3	1924233-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-3	1924233-03	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-3-3	1924233-03	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-3-3	1924233-03	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-3	1924233-03	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
MW-3-3	1924233-03	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-3-3	1924233-03	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-3	1924233-03	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-3-3	1924233-03	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-3-3	1924233-03	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-3	1924233-03	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-3	1924233-03	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-4	1924233-02	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
MW-3-4	1924233-02	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-3-4	1924233-02	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
MW-3-4	1924233-02	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-4	1924233-02	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
MW-3-4	1924233-02	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-4	1924233-02	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-4	1924233-02	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
MW-3-4	1924233-02	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-4	1924233-02	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	1,1-Dichloroethane	7/30/2019	0.24	Y	y	v j		0.50	0.15	ug/L
MW-3-4	1924233-02	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-4	1924233-02	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-4	1924233-02	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-4	1924233-02	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-4	1924233-02	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
MW-3-4	1924233-02	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
MW-3-4	1924233-02	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-4	1924233-02	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
MW-3-4	1924233-02	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-4	1924233-02	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
MW-3-4	1924233-02	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
MW-3-4	1924233-02	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
MW-3-4	1924233-02	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
MW-3-4	1924233-02	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
MW-3-4	1924233-02	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-4	1924233-02	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-4	1924233-02	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-4	1924233-02	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-4	1924233-02	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
MW-3-4	1924233-02	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
MW-3-4	1924233-02	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
MW-3-4	1924233-02	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
MW-3-4	1924233-02	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
MW-3-4	1924233-02	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
MW-3-4	1924233-02	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-4	1924233-02	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L
MW-3-4	1924233-02	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
MW-3-4	1924233-02	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
MW-3-4	1924233-02	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
MW-3-4	1924233-02	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
MW-3-4	1924233-02	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
MW-3-4	1924233-02	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
MW-3-4	1924233-02	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
MW-3-4	1924233-02	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
MW-3-4	1924233-02	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
MW-3-4	1924233-02	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
MW-3-4	1924233-02	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-4	1924233-02	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-4	1924233-02	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
MW-3-4	1924233-02	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
MW-3-4	1924233-02	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
MW-3-4	1924233-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-4	1924233-02	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
MW-3-4	1924233-02	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-4	1924233-02	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
MW-3-4	1924233-02	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-3-4	1924233-02	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
MW-3-4	1924233-02	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-4	1924233-02	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
MW-3-4	1924233-02	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
MW-3-4	1924233-02	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-4	1924233-02	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
MW-3-4	1924233-02	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
MW-3-4	1924233-02	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
MW-3-4	1924233-02	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-3-4	1924233-02	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
MW-3-4	1924233-02	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
TB-3-072419	1924233-01	1,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	Dibromomethane	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L
TB-3-072419	1924233-01	1,3-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
TB-3-072419	1924233-01	1,4-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	Dichlorodifluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	1,1-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	1,2-Dichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
TB-3-072419	1924233-01	1,2-Dichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	1,1-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
TB-3-072419	1924233-01	1,1-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
TB-3-072419	1924233-01	trans-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	1,3-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
TB-3-072419	1924233-01	2,2-Dichloropropane	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
TB-3-072419	1924233-01	1,2-Dibromoethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
TB-3-072419	1924233-01	n-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	cis-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	cis-1,2-Dichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L
TB-3-072419	1924233-01	Carbon tetrachloride	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	Trichloroethene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
TB-3-072419	1924233-01	trans-1,3-Dichloropropene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
TB-3-072419	1924233-01	Benzene	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
TB-3-072419	1924233-01	Bromobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	Bromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.27	ug/L

SDG: 1924233

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-3-072419	1924233-01	Bromodichloromethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
TB-3-072419	1924233-01	Bromoform	7/30/2019	0.50	Y	n	u		0.50	0.46	ug/L
TB-3-072419	1924233-01	tert-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
TB-3-072419	1924233-01	sec-Butylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
TB-3-072419	1924233-01	1,2-Dibromo-3-chloropropane	7/30/2019	1.0	Y	n	u		1.0	0.89	ug/L
TB-3-072419	1924233-01	Chlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	Chloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	Chloroform	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	Chloromethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
TB-3-072419	1924233-01	2-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	4-Chlorotoluene	7/30/2019	0.50	Y	n	u		0.50	0.093	ug/L
TB-3-072419	1924233-01	Dibromochloromethane	7/30/2019	0.50	Y	n	u		0.50	0.22	ug/L
TB-3-072419	1924233-01	Bromomethane	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
TB-3-072419	1924233-01	Pentachloroethane	7/30/2019	2.0	Y	n	u	UJ	2.0	0.63	ug/L
TB-3-072419	1924233-01	Carbon disulfide	7/30/2019	1.0	Y	n	u		1.0	0.48	ug/L
TB-3-072419	1924233-01	trans-1,4-Dichloro-2-butene	7/30/2019	5.0	Y	n	u		5.0	1.8	ug/L
TB-3-072419	1924233-01	Diethyl ether	7/30/2019	2.0	Y	n	u		2.0	0.33	ug/L
TB-3-072419	1924233-01	Ethyl methacrylate	7/30/2019	4.0	Y	n	u		4.0	1.3	ug/L
TB-3-072419	1924233-01	Ethyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.32	ug/L
TB-3-072419	1924233-01	Hexachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.11	ug/L
TB-3-072419	1924233-01	2-Hexanone	7/30/2019	10	Y	n	u		10	5.0	ug/L
TB-3-072419	1924233-01	Methacrylonitrile	7/30/2019	10	Y	n	u		10	2.3	ug/L
TB-3-072419	1924233-01	Methyl ethyl ketone	7/30/2019	10	Y	n	u		10	3.3	ug/L
TB-3-072419	1924233-01	Methyl iodide	7/30/2019	2.0	Y	n	u	UJ	2.0	1.1	ug/L
TB-3-072419	1924233-01	1,1,1-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L

SDG: 1924233

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-3-072419	1924233-01	Methyl methacrylate	7/30/2019	5.0	Y	n	u		5.0	1.2	ug/L
TB-3-072419	1924233-01	Allyl chloride	7/30/2019	5.0	Y	n	u		5.0	0.47	ug/L
TB-3-072419	1924233-01	Propionitrile	7/30/2019	20	Y	n	u		20	6.2	ug/L
TB-3-072419	1924233-01	Tetrahydrofuran	7/30/2019	20	Y	n	u		20	5.2	ug/L
TB-3-072419	1924233-01	p- & m-Xylenes	7/30/2019	0.50	Y	n	u		0.50	0.34	ug/L
TB-3-072419	1924233-01	o-Xylene	7/30/2019	0.50	Y	n	u		0.50	0.13	ug/L
TB-3-072419	1924233-01	Chloroacetonitrile	7/30/2019	0	Y	y	v				ug/L
TB-3-072419	1924233-01	1-Chlorobutane	7/30/2019	0	Y	y	v				ug/L
TB-3-072419	1924233-01	1,1-Dichloropropanone	7/30/2019	0	Y	y	v				ug/L
TB-3-072419	1924233-01	Methyl acrylate	7/30/2019	0	Y	y	v				ug/L
TB-3-072419	1924233-01	Nitrobenzene	7/30/2019	0	Y	y	v				ug/L
TB-3-072419	1924233-01	2-Nitropropane	7/30/2019	0	Y	y	v				ug/L
TB-3-072419	1924233-01	Methyl isobutyl ketone	7/30/2019	10	Y	n	u		10	2.4	ug/L
TB-3-072419	1924233-01	1,2,3-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
TB-3-072419	1924233-01	Hexachlorobutadiene	7/30/2019	0.50	Y	n	u		0.50	0.20	ug/L
TB-3-072419	1924233-01	Isopropylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	p-Isopropyltoluene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	Methylene chloride	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
TB-3-072419	1924233-01	Methyl t-butyl ether	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	Naphthalene	7/30/2019	0.50	Y	n	u		0.50	0.16	ug/L
TB-3-072419	1924233-01	n-Propylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
TB-3-072419	1924233-01	Styrene	7/30/2019	0.50	Y	n	u		0.50	0.12	ug/L
TB-3-072419	1924233-01	1,1,1,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
TB-3-072419	1924233-01	1,1,2,2-Tetrachloroethane	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	t-Butyl alcohol	7/30/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1924233

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-3-072419	1924233-01	Toluene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	t-Amyl Methyl ether	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
TB-3-072419	1924233-01	1,2,4-Trichlorobenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	1,1,2-Trichloroethane	7/30/2019	0.50	Y	n	u		0.50	0.21	ug/L
TB-3-072419	1924233-01	Trichlorofluoromethane	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	1,2,3-Trichloropropane	7/30/2019	1.0	Y	n	u		1.0	0.78	ug/L
TB-3-072419	1924233-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50	Y	n	u		0.50	0.19	ug/L
TB-3-072419	1924233-01	1,2,4-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.17	ug/L
TB-3-072419	1924233-01	1,3,5-Trimethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.14	ug/L
TB-3-072419	1924233-01	Vinyl chloride	7/30/2019	0.50	Y	n	u		0.50	0.18	ug/L
TB-3-072419	1924233-01	Acetone	7/30/2019	10	Y	n	u		10	6.6	ug/L
TB-3-072419	1924233-01	Acrylonitrile	7/30/2019	5.0	Y	n	u		5.0	1.5	ug/L
TB-3-072419	1924233-01	Ethylbenzene	7/30/2019	0.50	Y	n	u		0.50	0.15	ug/L
TB-3-072419	1924233-01	Tetrachloroethene	7/30/2019	0.50	Y	n	u		0.50	0.23	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 12, 2019

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924372

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-4-072519	1924372-01	Water	07/25/19
MW-22-3	1924372-02	Water	07/25/19
MW-22-2	1924372-03	Water	07/25/19
MW-22-1	1924372-04	Water	07/25/19
MW-24-3	1924372-07	Water	07/25/19
MW-24-2	1924372-08	Water	07/25/19
MW-24-1	1924372-09	Water	07/25/19
EB-4-072519	1924372-10	Water	07/25/19
MW-22-2MS	1924372-03MS	Water	07/25/19
MW-22-2MSD	1924372-03MSD	Water	07/25/19

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
07/30/19	Methyl iodide Pentachloroethane	34.9 97.2	All samples in SDG 1924372	UJ (all non-detects) UJ (all non-detects)	P

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-4-072519 was identified as a trip blank. No contaminants were found.

Sample EB-4-072519 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

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 eight samples.

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1924372

Sample	Compound	Flag	A or P	Reason
TB-4-072519 MW-22-3 MW-22-2 MW-22-1 MW-24-3 MW-24-2 MW-24-1 EB-4-072519	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924372

No Sample Data Qualified in this SDG

LDC #: 45815D1a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/1/19

SDG #: 1924372

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	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	RSD ≤ 20%, Y ² CV ≤ 30%
IV.	Continuing calibration	M	CV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	NO	TB = 1, 2B = 8
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	TB-4-072519	1924372-01	Water	07/25/19
2	MW-22-3	1924372-02	Water	07/25/19
3	MW-22-2	1924372-03	Water	07/25/19
4	MW-22-1	1924372-04	Water	07/25/19
5	MW-24-3	1924372-07	Water	07/25/19
6	MW-24-2	1924372-08	Water	07/25/19
7	MW-24-1	1924372-09	Water	07/25/19
8	EB-4-072519	1924372-10	Water	07/25/19
9	MW-22-2MS	1924372-03MS	Water	07/25/19
10	MW-22-2MSD	1924372-03MSD	Water	07/25/19
11				
12				
13				

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 10, 2019
Parameters: Chromium
Validation Level: Level III
Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924372

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-3	1924372-02	Water	07/25/19
MW-22-2	1924372-03	Water	07/25/19
MW-22-1	1924372-04	Water	07/25/19
MW-24-4	1924372-05	Water	07/25/19
DUP-4-3Q19	1924372-06	Water	07/25/19
MW-24-3	1924372-07	Water	07/25/19
MW-24-2	1924372-08	Water	07/25/19
MW-24-1	1924372-09	Water	07/25/19
EB-4-072519	1924372-10	Water	07/25/19
MW-22-2MS	1924372-03MS	Water	07/25/19
MW-22-2MSD	1924372-03MSD	Water	07/25/19
MW-22-2DUP	1924372-03DUP	Water	07/25/19

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-4-072519 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

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, 3Q2019
Chromium - Data Qualification Summary - SDG 1924372

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924372

No Sample Data Qualified in this SDG

LDC #: 45815D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 7/5/19

SDG #: 1924372

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: KK

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 = 9
VII.	Matrix Spike/Matrix Spike Duplicates	A	MSID
VIII.	Duplicate sample analysis	A	Dup
IX.	Serial Dilution	N	Not Performed
X.	Laboratory control samples	A	UCS
XI.	Field Duplicates	ND	(4, 5)
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-22-3	1924372-02	Water	07/25/19
2	MW-22-2	1924372-03	Water	07/25/19
3	MW-22-1	1924372-04	Water	07/25/19
4	MW-24-4 D _i	1924372-05	Water	07/25/19
5	DUP-4-3Q19 D _i	1924372-06	Water	07/25/19
6	MW-24-3	1924372-07	Water	07/25/19
7	MW-24-2	1924372-08	Water	07/25/19
8	MW-24-1	1924372-09	Water	07/25/19
9	EB-4-072519	1924372-10	Water	07/25/19
10	MW-22-2MS	1924372-03MS	Water	07/25/19
11	MW-22-2MSD	1924372-03MSD	Water	07/25/19
12	MW-22-2DUP	1924372-03DUP	Water	07/25/19
13				

Notes:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924372

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-22-3	1924372-02	Water	07/25/19
MW-22-2	1924372-03	Water	07/25/19
MW-22-1	1924372-04	Water	07/25/19
MW-24-4	1924372-05	Water	07/25/19
DUP-4-3Q19	1924372-06	Water	07/25/19
MW-24-3	1924372-07	Water	07/25/19
MW-24-2	1924372-08	Water	07/25/19
MW-24-1	1924372-09	Water	07/25/19
EB-4-072519	1924372-10	Water	07/25/19
MW-22-3MS	1924372-02MS	Water	07/25/19
MW-22-3MSD	1924372-02MSD	Water	07/25/19
MW-22-3DUP	1924372-02DUP	Water	07/25/19
MW-22-2MS	1924372-03MS	Water	07/25/19
MW-22-2MSD	1924372-03MSD	Water	07/25/19
MW-22-2DUP	1924372-03DUP	Water	07/25/19

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:

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

Nitrite as Nitrogen by EPA Method 353.2

Ortho-Phosphate 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.

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	0.41 mg/L	MW-24-4

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks.

V. Field Blanks

Sample EB-4-072519 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration (mg/L)
EB-4-072519	Hexavalent chromium	0.000032

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-24-4 and DUP-4-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	MW-24-4	DUP-4-3Q19	
Hexavalent Chromium	0.000068	0.000064	6

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 method. No results were rejected in this SDG.

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

NASA JPL, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924372

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924372

No Sample Data Qualified in this SDG

LDC #: 45815D6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/15/19

SDG #: 1924372

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *CK*2nd Reviewer: *CK*

METHOD: (Analyte) Chloride, Nitrate as N, Sulfate (EPA Method 300.0), ^{Nitrite} Nitrate as N (EPA Method 353.2), ortho-Phosphate as 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 = 9
VI.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VII.	Duplicate sample analysis	A	DUP
VIII.	Laboratory control samples	A	LCS
IX	Field duplicates	SW	(4,5)
X	Sample result verification	N	
XI	Overall assessment of data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-22-3	1924372-02	Water	07/25/19
2	MW-22-2	1924372-03	Water	07/25/19
3	MW-22-1	1924372-04	Water	07/25/19
4	MW-24-4 <i>D_i</i>	1924372-05	Water	07/25/19
5	DUP-4-3Q19 <i>D_i</i>	1924372-06	Water	07/25/19
6	MW-24-3	1924372-07	Water	07/25/19
7	MW-24-2	1924372-08	Water	07/25/19
8	MW-24-1	1924372-09	Water	07/25/19
9	EB-4-072519	1924372-10	Water	07/25/19
10	MW-22-3MS	1924372-02MS	Water	07/25/19
11	MW-22-3MSD	1924372-02MSD	Water	07/25/19
12	MW-22-3DUP	1924372-02DUP	Water	07/25/19
13	MW-22-2MS	1924372-03MS	Water	07/25/19
14	MW-22-2MSD	1924372-03MSD	Water	07/25/19
15	MW-22-2DUP	1924372-03DUP	Water	07/25/19
16				

Notes:

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L **Associated Samples:** 4

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)		No qual (>5x)									
Cl		0.41	2.05										

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 #: 45819D6

VALIDATION FINDINGS WORKSHEET Field Blanks

Page: 1 of 1
Reviewer: SK
2nd Reviewer: CI

METHOD: Inorganics, EPA Method See Copy

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

Blank units: mg/L Associated sample units: _____

Sampling date: 7/25/19 Soil factor applied _____

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: None

Analyte	Blank ID	Sample Identification							
	<u>9</u>								
<u>Cr 6+</u>	<u>0.000032</u>								

Blank units: _____ Associated sample units: _____

Sampling date: _____ Soil factor applied _____

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Analyte	Blank ID	Sample Identification							

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".
V:\Validation Worksheets New\Inorganic\Minerals\FBLKASC-6.wpd

LDC#: 45815D6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: Inorganics (See cover)

Analyte	Concentration		RPD
	4	5	
Hexavalent Chromium	0.000068 mg/L	0.000064 mg/L	6

NASA JPL, 3Q2019 - LDC# 45815D

SDG: 1924372

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-4-3Q19	1924372-06	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
EB-4-072519	1924372-10	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-22-1	1924372-04	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-22-2	1924372-03	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-22-3	1924372-02	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW24-1	1924372-09	Total Recoverable Chromium	7/29/2019	1.7		y	v j		3.0	0.50	ug/L
MW24-2	1924372-08	Total Recoverable Chromium	7/29/2019	1.3		y	v j		3.0	0.50	ug/L
MW24-3	1924372-07	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-24-4	1924372-05	Total Recoverable Chromium	7/29/2019	3.0		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-4-3Q19	1924372-06	Hexavalent Chromium	7/26/2019	0.0000		y	v j		0.0002	0.0000	mg/L
EB-4-072519	1924372-10	Hexavalent Chromium	7/26/2019	0.0000		y	v j		0.0002	0.0000	mg/L
MW-22-1	1924372-04	Hexavalent Chromium	7/26/2019	0.0005		y	v		0.0002	0.0000	mg/L
MW-22-2	1924372-03	Hexavalent Chromium	7/26/2019	0.0005		y	v		0.0002	0.0000	mg/L
MW-22-3	1924372-02	Hexavalent Chromium	7/26/2019	0.0012		y	v		0.0002	0.0000	mg/L
MW24-1	1924372-09	Hexavalent Chromium	7/26/2019	0.0007		y	v		0.0002	0.0000	mg/L
MW24-2	1924372-08	Hexavalent Chromium	7/26/2019	0.0016		y	v		0.0002	0.0000	mg/L
MW24-3	1924372-07	Hexavalent Chromium	7/26/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-24-4	1924372-05	Hexavalent Chromium	7/26/2019	0.0000		y	v j		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
MW24-1	1924372-09	Chloride	7/26/2019	67		y	v		0.50	0.15	mg/L

SDG: 1924372

Analytical Method		EPA-300.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-1	1924372-09	Sulfate	7/26/2019	46		y	v		1.0	0.20	mg/L
MW24-1	1924372-09	Nitrate as N	7/26/2019	1.7		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
EB-4-072519	1924372-10	Perchlorate	7/26/2019	4.0		n	u		4.0	0.76	ug/L
MW-22-1	1924372-04	Perchlorate	7/26/2019	160		y	v		40	7.6	ug/L
MW-22-2	1924372-03	Perchlorate	7/26/2019	2.9		y	v j		4.0	0.76	ug/L
MW-22-3	1924372-02	Perchlorate	7/26/2019	2.5		y	v j		4.0	0.76	ug/L
MW24-1	1924372-09	Perchlorate	7/26/2019	17		y	v		4.0	0.76	ug/L
MW24-2	1924372-08	Perchlorate	7/26/2019	4.5		y	v		4.0	0.76	ug/L
MW24-3	1924372-07	Perchlorate	7/26/2019	4.0		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
MW24-1	1924372-09	Nitrite as N	7/26/2019	0.050		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
MW24-1	1924372-09	ortho-Phosphate as P	7/26/2019	0.050		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
EB-4-072519	1924372-10	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
EB-4-072519	1924372-10	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
EB-4-072519	1924372-10	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
EB-4-072519	1924372-10	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
EB-4-072519	1924372-10	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L

SDG: 1924372

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-4-072519	1924372-10	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-4-072519	1924372-10	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
EB-4-072519	1924372-10	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
EB-4-072519	1924372-10	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-4-072519	1924372-10	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
EB-4-072519	1924372-10	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-4-072519	1924372-10	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-4-072519	1924372-10	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
EB-4-072519	1924372-10	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
EB-4-072519	1924372-10	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
EB-4-072519	1924372-10	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
EB-4-072519	1924372-10	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
EB-4-072519	1924372-10	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
EB-4-072519	1924372-10	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
EB-4-072519	1924372-10	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
EB-4-072519	1924372-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-4-072519	1924372-10	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-4-072519	1924372-10	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

SDG: 1924372

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-4-072519	1924372-10	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
EB-4-072519	1924372-10	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
EB-4-072519	1924372-10	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-4-072519	1924372-10	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
EB-4-072519	1924372-10	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
EB-4-072519	1924372-10	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
EB-4-072519	1924372-10	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
EB-4-072519	1924372-10	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
EB-4-072519	1924372-10	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
EB-4-072519	1924372-10	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
EB-4-072519	1924372-10	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
EB-4-072519	1924372-10	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
EB-4-072519	1924372-10	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
EB-4-072519	1924372-10	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
EB-4-072519	1924372-10	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
EB-4-072519	1924372-10	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
EB-4-072519	1924372-10	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
EB-4-072519	1924372-10	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
EB-4-072519	1924372-10	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
EB-4-072519	1924372-10	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
EB-4-072519	1924372-10	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
EB-4-072519	1924372-10	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
EB-4-072519	1924372-10	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
EB-4-072519	1924372-10	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-072519	1924372-10	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-4-072519	1924372-10	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
EB-4-072519	1924372-10	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
EB-4-072519	1924372-10	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-4-072519	1924372-10	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
EB-4-072519	1924372-10	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
EB-4-072519	1924372-10	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
EB-4-072519	1924372-10	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
EB-4-072519	1924372-10	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
EB-4-072519	1924372-10	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-4-072519	1924372-10	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-4-072519	1924372-10	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-4-072519	1924372-10	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
EB-4-072519	1924372-10	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
EB-4-072519	1924372-10	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-4-072519	1924372-10	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
EB-4-072519	1924372-10	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
EB-4-072519	1924372-10	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
EB-4-072519	1924372-10	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
EB-4-072519	1924372-10	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-4-072519	1924372-10	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-22-1	1924372-04	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-22-1	1924372-04	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-1	1924372-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-1	1924372-04	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	Trichloroethene	7/30/2019	0.22		y	v j		0.50	0.19	ug/L
MW-22-1	1924372-04	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-1	1924372-04	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-1	1924372-04	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-1	1924372-04	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-1	1924372-04	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-22-1	1924372-04	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-1	1924372-04	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-22-1	1924372-04	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-22-1	1924372-04	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-1	1924372-04	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-22-1	1924372-04	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-22-1	1924372-04	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-22-1	1924372-04	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-22-1	1924372-04	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-22-1	1924372-04	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-1	1924372-04	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-1	1924372-04	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-1	1924372-04	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-22-1	1924372-04	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-22-1	1924372-04	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-22-1	1924372-04	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-22-1	1924372-04	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-22-1	1924372-04	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-22-1	1924372-04	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-22-1	1924372-04	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-22-1	1924372-04	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-1	1924372-04	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-22-1	1924372-04	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-22-1	1924372-04	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-22-1	1924372-04	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-22-1	1924372-04	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-22-1	1924372-04	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-1	1924372-04	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-1	1924372-04	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-1	1924372-04	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-1	1924372-04	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-1	1924372-04	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-22-1	1924372-04	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-22-1	1924372-04	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-1	1924372-04	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-1	1924372-04	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-1	1924372-04	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-1	1924372-04	Chloroform	7/30/2019	0.97		y	v		0.50	0.14	ug/L
MW-22-1	1924372-04	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-1	1924372-04	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-1	1924372-04	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-22-1	1924372-04	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-22-1	1924372-04	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-22-1	1924372-04	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-1	1924372-04	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-1	1924372-04	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-1	1924372-04	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-1	1924372-04	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-1	1924372-04	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-1	1924372-04	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-1	1924372-04	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-1	1924372-04	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-1	1924372-04	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-1	1924372-04	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-1	1924372-04	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-1	1924372-04	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-22-1	1924372-04	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-1	1924372-04	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-22-2	1924372-03	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-2	1924372-03	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-2	1924372-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-2	1924372-03	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-22-2	1924372-03	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	Trichloroethene	7/30/2019	0.19		y	v j		0.50	0.19	ug/L
MW-22-2	1924372-03	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-2	1924372-03	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-2	1924372-03	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-2	1924372-03	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-2	1924372-03	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-22-2	1924372-03	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-22-2	1924372-03	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-2	1924372-03	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-22-2	1924372-03	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-22-2	1924372-03	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-22-2	1924372-03	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-2	1924372-03	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-2	1924372-03	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-2	1924372-03	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-22-2	1924372-03	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-2	1924372-03	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-22-2	1924372-03	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-22-2	1924372-03	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-22-2	1924372-03	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-22-2	1924372-03	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-22-2	1924372-03	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-22-2	1924372-03	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-22-2	1924372-03	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-2	1924372-03	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-2	1924372-03	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-22-2	1924372-03	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-22-2	1924372-03	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-22-2	1924372-03	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-22-2	1924372-03	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-22-2	1924372-03	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-2	1924372-03	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-22-2	1924372-03	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-22-2	1924372-03	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-2	1924372-03	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-22-2	1924372-03	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-2	1924372-03	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-22-2	1924372-03	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-2	1924372-03	Chloroform	7/30/2019	0.20		y	v j		0.50	0.14	ug/L
MW-22-2	1924372-03	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-2	1924372-03	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-22-2	1924372-03	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-2	1924372-03	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-2	1924372-03	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-22-2	1924372-03	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-2	1924372-03	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-2	1924372-03	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-2	1924372-03	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-22-2	1924372-03	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-2	1924372-03	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-2	1924372-03	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-22-2	1924372-03	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-2	1924372-03	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-2	1924372-03	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-2	1924372-03	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-2	1924372-03	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-2	1924372-03	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-2	1924372-03	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-2	1924372-03	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-22-2	1924372-03	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-22-2	1924372-03	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-2	1924372-03	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-22-2	1924372-03	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-2	1924372-03	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-22-3	1924372-02	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-22-3	1924372-02	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-3	1924372-02	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-22-3	1924372-02	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-3	1924372-02	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-22-3	1924372-02	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-3	1924372-02	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1924372-02	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-3	1924372-02	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-3	1924372-02	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-3	1924372-02	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-22-3	1924372-02	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-22-3	1924372-02	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-22-3	1924372-02	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-3	1924372-02	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-3	1924372-02	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-22-3	1924372-02	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-22-3	1924372-02	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-22-3	1924372-02	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-22-3	1924372-02	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-22-3	1924372-02	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-22-3	1924372-02	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-3	1924372-02	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-22-3	1924372-02	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-3	1924372-02	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-3	1924372-02	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1924372-02	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-22-3	1924372-02	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-22-3	1924372-02	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-22-3	1924372-02	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-3	1924372-02	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-3	1924372-02	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-22-3	1924372-02	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-22-3	1924372-02	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-3	1924372-02	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-3	1924372-02	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-22-3	1924372-02	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-22-3	1924372-02	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-22-3	1924372-02	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-22-3	1924372-02	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-22-3	1924372-02	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-22-3	1924372-02	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-22-3	1924372-02	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-22-3	1924372-02	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-22-3	1924372-02	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-22-3	1924372-02	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-22-3	1924372-02	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-3	1924372-02	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-22-3	1924372-02	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-3	1924372-02	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-22-3	1924372-02	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-22-3	1924372-02	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-22-3	1924372-02	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-22-3	1924372-02	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-22-3	1924372-02	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-22-3	1924372-02	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-22-3	1924372-02	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-22-3	1924372-02	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-22-3	1924372-02	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-22-3	1924372-02	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-1	1924372-09	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-1	1924372-09	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-1	1924372-09	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW24-1	1924372-09	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW24-1	1924372-09	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW24-1	1924372-09	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-1	1924372-09	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW24-1	1924372-09	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-1	1924372-09	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-1	1924372-09	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-1	1924372-09	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW24-1	1924372-09	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-1	1924372-09	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW24-1	1924372-09	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW24-1	1924372-09	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW24-1	1924372-09	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-1	1924372-09	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW24-1	1924372-09	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW24-1	1924372-09	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW24-1	1924372-09	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW24-1	1924372-09	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW24-1	1924372-09	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW24-1	1924372-09	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW24-1	1924372-09	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW24-1	1924372-09	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW24-1	1924372-09	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-1	1924372-09	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW24-1	1924372-09	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW24-1	1924372-09	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-1	1924372-09	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW24-1	1924372-09	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-1	1924372-09	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW24-1	1924372-09	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-1	1924372-09	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-1	1924372-09	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW24-1	1924372-09	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW24-1	1924372-09	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-1	1924372-09	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-1	1924372-09	Chloroform	7/30/2019	1.3		y	v		0.50	0.14	ug/L
MW24-1	1924372-09	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW24-1	1924372-09	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-1	1924372-09	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW24-1	1924372-09	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-1	1924372-09	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-1	1924372-09	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-1	1924372-09	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW24-1	1924372-09	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-1	1924372-09	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW24-1	1924372-09	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-1	1924372-09	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-1	1924372-09	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-1	1924372-09	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-1	1924372-09	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-1	1924372-09	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-1	1924372-09	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW24-1	1924372-09	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-1	1924372-09	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-1	1924372-09	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-1	1924372-09	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-1	1924372-09	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW24-1	1924372-09	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-1	1924372-09	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-2	1924372-08	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-2	1924372-08	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-2	1924372-08	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-2	1924372-08	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-2	1924372-08	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW24-2	1924372-08	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW24-2	1924372-08	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW24-2	1924372-08	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-2	1924372-08	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW24-2	1924372-08	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-2	1924372-08	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-2	1924372-08	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW24-2	1924372-08	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-2	1924372-08	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-2	1924372-08	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-2	1924372-08	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW24-2	1924372-08	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-2	1924372-08	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-2	1924372-08	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-2	1924372-08	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW24-2	1924372-08	Bromodichloromethane	7/30/2019	0.33		y	v j		0.50	0.20	ug/L
MW24-2	1924372-08	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-2	1924372-08	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-2	1924372-08	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-2	1924372-08	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-2	1924372-08	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-2	1924372-08	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-2	1924372-08	Chloroform	7/30/2019	0.47		y	v j		0.50	0.14	ug/L
MW24-2	1924372-08	1,1-Dichloroethane	7/30/2019	0.16		y	v j		0.50	0.15	ug/L
MW24-2	1924372-08	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-2	1924372-08	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW24-2	1924372-08	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-2	1924372-08	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-2	1924372-08	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW24-2	1924372-08	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW24-2	1924372-08	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW24-2	1924372-08	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-2	1924372-08	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW24-2	1924372-08	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-2	1924372-08	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-2	1924372-08	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-2	1924372-08	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW24-2	1924372-08	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW24-2	1924372-08	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW24-2	1924372-08	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-2	1924372-08	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW24-2	1924372-08	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW24-2	1924372-08	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW24-2	1924372-08	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-2	1924372-08	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW24-2	1924372-08	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW24-2	1924372-08	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW24-2	1924372-08	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW24-2	1924372-08	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW24-2	1924372-08	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW24-2	1924372-08	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW24-2	1924372-08	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-2	1924372-08	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW24-2	1924372-08	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-2	1924372-08	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW24-2	1924372-08	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW24-2	1924372-08	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-2	1924372-08	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW24-3	1924372-07	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW24-3	1924372-07	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW24-3	1924372-07	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW24-3	1924372-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-3	1924372-07	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW24-3	1924372-07	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW24-3	1924372-07	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-3	1924372-07	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW24-3	1924372-07	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW24-3	1924372-07	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW24-3	1924372-07	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW24-3	1924372-07	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-3	1924372-07	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW24-3	1924372-07	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW24-3	1924372-07	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW24-3	1924372-07	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW24-3	1924372-07	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-3	1924372-07	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW24-3	1924372-07	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-3	1924372-07	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-3	1924372-07	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-3	1924372-07	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-3	1924372-07	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-3	1924372-07	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW24-3	1924372-07	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW24-3	1924372-07	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW24-3	1924372-07	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-3	1924372-07	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW24-3	1924372-07	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW24-3	1924372-07	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW24-3	1924372-07	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-3	1924372-07	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW24-3	1924372-07	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-3	1924372-07	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW24-3	1924372-07	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW24-3	1924372-07	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW24-3	1924372-07	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW24-3	1924372-07	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW24-3	1924372-07	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

SDG: 1924372

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-3	1924372-07	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-3	1924372-07	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-3	1924372-07	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-3	1924372-07	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-3	1924372-07	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-3	1924372-07	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-3	1924372-07	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-3	1924372-07	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW24-3	1924372-07	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-3	1924372-07	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-3	1924372-07	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-3	1924372-07	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW24-3	1924372-07	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW24-3	1924372-07	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW24-3	1924372-07	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW24-3	1924372-07	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW24-3	1924372-07	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-3	1924372-07	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW24-3	1924372-07	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L

SDG: 1924372

Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW24-3	1924372-07	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW24-3	1924372-07	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW24-3	1924372-07	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW24-3	1924372-07	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW24-3	1924372-07	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-3	1924372-07	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW24-3	1924372-07	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW24-3	1924372-07	1,1-Dichloroethane	7/30/2019	0.19		y	v j		0.50	0.15	ug/L
MW24-3	1924372-07	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW24-3	1924372-07	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
TB-4-072519	1924372-01	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
TB-4-072519	1924372-01	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
TB-4-072519	1924372-01	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
TB-4-072519	1924372-01	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
TB-4-072519	1924372-01	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
TB-4-072519	1924372-01	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
TB-4-072519	1924372-01	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
TB-4-072519	1924372-01	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
TB-4-072519	1924372-01	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
TB-4-072519	1924372-01	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L

SDG: 1924372

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-4-072519	1924372-01	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
TB-4-072519	1924372-01	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
TB-4-072519	1924372-01	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
TB-4-072519	1924372-01	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
TB-4-072519	1924372-01	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
TB-4-072519	1924372-01	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
TB-4-072519	1924372-01	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
TB-4-072519	1924372-01	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
TB-4-072519	1924372-01	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
TB-4-072519	1924372-01	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
TB-4-072519	1924372-01	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
TB-4-072519	1924372-01	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
TB-4-072519	1924372-01	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
TB-4-072519	1924372-01	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
TB-4-072519	1924372-01	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
TB-4-072519	1924372-01	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
TB-4-072519	1924372-01	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
TB-4-072519	1924372-01	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
TB-4-072519	1924372-01	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
TB-4-072519	1924372-01	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
TB-4-072519	1924372-01	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
TB-4-072519	1924372-01	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L

SDG: 1924372

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-4-072519	1924372-01	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
TB-4-072519	1924372-01	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
TB-4-072519	1924372-01	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
TB-4-072519	1924372-01	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
TB-4-072519	1924372-01	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
TB-4-072519	1924372-01	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
TB-4-072519	1924372-01	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
TB-4-072519	1924372-01	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
TB-4-072519	1924372-01	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
TB-4-072519	1924372-01	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
TB-4-072519	1924372-01	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
TB-4-072519	1924372-01	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
TB-4-072519	1924372-01	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
TB-4-072519	1924372-01	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
TB-4-072519	1924372-01	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
TB-4-072519	1924372-01	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
TB-4-072519	1924372-01	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
TB-4-072519	1924372-01	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
TB-4-072519	1924372-01	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L

SDG: 1924372

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-4-072519	1924372-01	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
TB-4-072519	1924372-01	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
TB-4-072519	1924372-01	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
TB-4-072519	1924372-01	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
TB-4-072519	1924372-01	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
TB-4-072519	1924372-01	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
TB-4-072519	1924372-01	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
TB-4-072519	1924372-01	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
TB-4-072519	1924372-01	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
TB-4-072519	1924372-01	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 12, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924515

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-5-072619	1924515-01	Water	07/26/19
MW-11-4	1924515-02	Water	07/26/19
MW-11-3**	1924515-03**	Water	07/26/19
MW-11-2	1924515-04	Water	07/26/19
MW-11-1	1924515-05	Water	07/26/19
MW-26-2	1924515-06	Water	07/26/19
MW-26-1	1924515-07	Water	07/26/19
EB-5-072619	1924515-08	Water	07/26/19
MW-26-1MS	1924515-07MS	Water	07/26/19
MW-26-1MSD	1924515-07MSD	Water	07/26/19

**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
07/30/19 (30JUL03)	Methyl iodide Pentachloroethane	34.9 97.2	MW-11-4 MW-11-3** MW-11-2 MW-26-1	UJ (all non-detects) UJ (all non-detects)	P
07/30/19 (30JUL32)	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	35.6 40.6 95.8	TB-5-072619 MW-11-1 MW-26-2 EB-5-072619	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-5-072619 was identified as a trip blank. No contaminants were found.

Sample EB-5-072619 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 eight samples.

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

NASA JPL, 3Q2019

Volatiles - Data Qualification Summary - SDG 1924515

Sample	Compound	Flag	A or P	Reason
MW-11-4 MW-11-3** MW-11-2 MW-26-1	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)
TB-5-072619 MW-11-1 MW-26-2 EB-5-072619	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019

Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924515

No Sample Data Qualified in this SDG

LDC #: 45815E1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1924515

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 9/11/19

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	FSD ≤ 20% . γ^2 1CV ≤ 30%
IV.	Continuing calibration	M	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1. EB=8
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-5-072619	1924515-01	Water	07/26/19
2	MW-11-4	1924515-02	Water	07/26/19
3	MW-11-3**	1924515-03**	Water	07/26/19
4	MW-11-2	1924515-04	Water	07/26/19
5	MW-11-1	1924515-05	Water	07/26/19
6	MW-26-2	1924515-06	Water	07/26/19
7	MW-26-1	1924515-07	Water	07/26/19
8	EB-5-072619	1924515-08	Water	07/26/19
9	MW-26-1MS	1924515-07MS	Water	07/26/19
10	MW-26-1MSD	1924515-07MSD	Water	07/26/19
11				
12				
13	#052355 [Signature]			

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	/			
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			Y2
IIIa. Initial Calibration Verification calibration				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) < 30%?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at the beginning of each analysis batch?	/			
Were all percent differences (%D) of continuing calibration < 30%?		/		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed with each analysis batch?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VIII. Matrix spike/Matrix spike duplicates				
Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	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 SW 846 Method 8260B)

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

RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$
 average RRF = sum of the RRFs/number of standards
 %RSD = $100 * (S/X)$

A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs
 X = Mean of the RRFs

A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (10 std)	RRF (10 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL (MS-V5)	7/29/19	K (1st internal standard)	0.9480367	0.9480367	0.9052405	0.9052405	11.69643	11.696
			S (2nd internal standard)	0.3363997	0.3363996	0.3371298	0.3371298	13.20929	13.209
			EE (3rd internal standard)	1.901342	1.901342	1.94415	1.94415	12.29067	12.291
			(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	30JUL02	7/30/19	K (1st internal standard)	0.9052405	0.9229618	0.9229618	2.0	2.0
			S (2nd internal standard)	0.3371298	0.3351793	0.3351792	0.6	0.6
			EE (3rd internal standard)	1.94415	1.797636	1.797636	7.5	7.5
			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.

LDC #: 150152/9

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 3

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	10.05	100	100	
Bromofluorobenzene	✓	10.06	101	101	
1,2-Dichlorobenzene-d4	✓	10.41	104	104	
Dibromofluoromethane					

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

VALIDATION FINDINGS WORKSHEET
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 - MSC1| * 2/(MSC + MSC1)

MSC = Matrix spike concentration

MSC1 = Matrix spike duplicate concentration

MS/MSD sample: 9/10

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	25.00	25.00	ND	25.560	24.580	102	102	98.3	98.3	3.91	3.91
Trichloroethene	↓	↓	0.280	24.200	23.690	95.7	95.7	93.6	93.6	2.13	2.13
Benzene	↓	↓	ND	23.870	23.750	95.3	95.3	93.4	93.4	2.03	2.03
Toluene	↓	↓	↓	22.810	22.720	91.2	91.2	90.9	90.9	0.395	0.395
Chlorobenzene	↓	↓	↓	25.640	24.960	103	103	99.8	99.8	2.69	2.69

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 #: 150152/9

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

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: B052355-1351

Compound	Spike Added (<u>µg/L</u>)		Spiked Sample Concentration (<u>µg/L</u>)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	<u>25.00</u>	<u>NA</u>	<u>26.260</u>	<u>NA</u>	<u>105</u>	<u>105</u>				
Trichloroethene	↓	↓	<u>25.660</u>	↓	<u>103</u>	<u>103</u>				
Benzene	↓	↓	<u>23.720</u>	↓	<u>94.9</u>	<u>94.9</u>				
Toluene	↓	↓	<u>23.340</u>	↓	<u>93.4</u>	<u>93.4</u>				
Chlorobenzene	↓	↓	<u>24.740</u>	↓	<u>99.0</u>	<u>99.0</u>				

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924515

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-11-3**	1924515-03**	Water	07/26/19
MW-11-2	1924515-04	Water	07/26/19
MW-11-1	1924515-05	Water	07/26/19
MW-26-2	1924515-06	Water	07/26/19
MW-26-1	1924515-07	Water	07/26/19
EB-5-072619	1924515-08	Water	07/26/19
MW-26-1MS	1924515-07MS	Water	07/26/19
MW-26-1MSD	1924515-07MSD	Water	07/26/19
MW-26-1DUP	1924515-07DUP	Water	07/26/19

**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-5-072619 was identified as an equipment blank. No contaminants were found were found with the following exceptions:

Blank ID	Analyte	Concentration (ug/L)
EB-5-072619	Total recoverable chromium	1.5

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

NASA JPL, 3Q2019
Chromium - Data Qualification Summary - SDG 1924515

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924515

No Sample Data Qualified in this SDG

LDC #: 45815E4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/19/19

SDG #: 1924515

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	SW	EB 26
VII.	Matrix Spike/Matrix Spike Duplicates	A	MSID
VIII.	Duplicate sample analysis	A	DUP
IX.	Serial Dilution	N	Not Performed
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	A	Not reviewed for Level III validation
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-11-3**	1924515-03**	Water	07/26/19
2	MW-11-2	1924515-04	Water	07/26/19
3	MW-11-1	1924515-05	Water	07/26/19
4	MW-26-2	1924515-06	Water	07/26/19
5	MW-26-1	1924515-07	Water	07/26/19
6	EB-5-072619	1924515-08	Water	07/26/19
7	MW-26-1MS	1924515-07MS	Water	07/26/19
8	MW-26-1MSD	1924515-07MSD	Water	07/26/19
9	MW-26-1DUP	1924515-07DUP	Water	07/26/19
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?		/	NA <u>OK</u>	
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 +/- RL(+/-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.	/			

LDC #: 45815E4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

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

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

Blank units: ug/l Associated sample units: _____

Sampling date: 7/26/19 Soil factor applied _____

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: None

Analyte	Blank ID	Sample Identification								
	<u>6</u>									
<u>Total Recoverable Cr</u>	<u>1.5</u>									

Blank units: _____ Associated sample units: _____

Sampling date: _____ Soil factor applied _____

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Analyte	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 45814 E4a

VALIDATION FINDINGS WORKSHEET Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: IKK
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)	Cr	50.202 $\frac{\mu\text{g}}{\text{L}}$	50.0 $\frac{\mu\text{g}}{\text{L}}$	100	100	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV Q	ICP/MS (Continuing calibration)	Cr	41.525 $\frac{\mu\text{g}}{\text{L}}$	40.0 $\frac{\mu\text{g}}{\text{L}}$	104	104	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
tune	Mass Axis	24	24.025	± 0.1 AMU	NA	Y
↓	%RSD	238	0.3	≤ 5% RSD	0.3	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
—	ICP interference check						
LCS	Laboratory control sample	Cr	41.723 $\frac{\mu g}{L}$	40.0 $\frac{\mu g}{L}$	104	104	Y
7	Matrix spike	↓	(SSR-SR) 39.904 $\frac{\mu g}{L}$	40.0 $\frac{\mu g}{L}$	99.8	99.8	Y
8	Duplicate	↓	39.696 $\frac{\mu g}{L}$	39.904 $\frac{\mu g}{L}$	0.523	0.523	Y
PDS	Post digestion spike	↓	38.905 $\frac{\mu g}{L}$	40.0 $\frac{\mu g}{L}$	97.3	97.3	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 10, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924515

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-11-4	1924515-02	Water	07/26/19
MW-11-3**	1924515-03**	Water	07/26/19
MW-11-2	1924515-04	Water	07/26/19
MW-11-1	1924515-05	Water	07/26/19
MW-26-2	1924515-06	Water	07/26/19
MW-26-1	1924515-07	Water	07/26/19
EB-5-072619	1924515-08	Water	07/26/19
MW-11-1MS	1924515-05MS	Water	07/26/19
MW-11-1MSD	1924515-05MSD	Water	07/26/19
MW-11-1DUP	1924515-05DUP	Water	07/26/19
MW-26-2MS	1924515-06MS	Water	07/26/19
MW-26-2MSD	1924515-06MSD	Water	07/26/19
MW-26-2DUP	1924515-06DUP	Water	07/26/19
MW-26-1MS	1924515-07MS	Water	07/26/19
MW-26-1MSD	1924515-07MSD	Water	07/26/19
MW-26-1DUP	1924515-07DUP	Water	07/26/19

**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

Ortho-Phosphate 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)	Chloride	0.396 mg/L	MW-11-1
ICB/CCB	Chloride	0.372 mg/L	MW-11-1

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

V. Field Blanks

Sample EB-5-072619 was identified as an equipment blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

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

NASA JPL, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924515

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924515

No Sample Data Qualified in this SDG

LDC #: 45815E6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/5/19

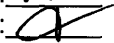
SDG #: 1924515

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: KIK

2nd Reviewer: 

Nitrite

METHOD: (Analyte) Chloride, Nitrate as N, Sulfate (EPA Method 300.0), Nitrite as N (EPA Method 353.2), ortho-Phosphate as 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 = 7
VI.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VII.	Duplicate sample analysis	A	DUP
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-11-4	1924515-02	Water	07/26/19
2	MW-11-3**	1924515-03**	Water	07/26/19
3	MW-11-2	1924515-04	Water	07/26/19
4	MW-11-1	1924515-05	Water	07/26/19
5	MW-26-2	1924515-06	Water	07/26/19
6	MW-26-1	1924515-07	Water	07/26/19
7	EB-5-072619	1924515-08	Water	07/26/19
8	MW-11-1MS	1924515-05MS	Water	07/26/19
9	MW-11-1MSD	1924515-05MSD	Water	07/26/19
10	MW-11-1DUP	1924515-05DUP	Water	07/26/19
11	MW-26-2MS	1924515-06MS	Water	07/26/19
12	MW-26-2MSD	1924515-06MSD	Water	07/26/19
13	MW-26-2DUP	1924515-06DUP	Water	07/26/19
14	MW-26-1MS	1924515-07MS	Water	07/26/19
15	MW-26-1MSD	1924515-07MSD	Water	07/26/19
16	MW-26-1DUP	1924515-07DUP	Water	07/26/19
17				

Method: Inorganics (EPA Method *see Cover*)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial calibration correlation coefficients ≥ 0.995 ?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	/			
Were titrant checks performed as required? (Level IV only)			/	
Were balance checks performed as required? (Level IV only)			/	
III. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/		<i>not KJK</i>	
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?			/	

LDC #: 45815 E6

VALIDATION FINDINGS CHECKLIST

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

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

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 4

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)		No qual (>5x)									
Cl	0.396	0.372	1.98										

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 #: 45815E6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated. Calibration date: 7/22/19

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. (mg/L)	Area	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	Cr6+	s1	0.2	0.022	0.999867	0.999825	Y
		s2	2	0.2330			
		s3	10	1.189			
		s4	25	3.008			
		s5	50	5.846			
Calibration verification	ClO ₄	ICV	9.9702	10.0	99.7	99.7	Y
Calibration verification	ClO ₄	CCV1	9.9315	10.0	99.3	99.3	Y
Calibration verification	Cr6+	CCV	26.129	25.0	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 #: 45815E6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: KJK
2nd Reviewer: CO

METHOD: Inorganics, Method See Level

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	
LC8	Laboratory control sample	Cr6 ⁺	0.020541 $\frac{mg}{L}$	0.02 $\frac{mg}{L}$	103	103	Y
11	Matrix spike sample	ClO ₄	(SSR-SR) 9.0928 $\frac{ug}{L}$	10.101 $\frac{ug}{L}$	90	90	Y
16	Duplicate sample	ClO ₄	3.1169 $\frac{ug}{L}$	3.1242 $\frac{ug}{L}$	0.234	0.234	Y

Comments: _____

NASA JPL, 3Q2019 - LDC# 45815E

SDG: 1924515

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-5-072619	1924515-08	Total Recoverable Chromium	7/29/2019	1.5		y	v j		3.0	0.50	ug/L
MW-11-1	1924515-05	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-11-2	1924515-04	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-11-3	1924515-03	Total Recoverable Chromium	7/29/2019	4.0		y	v		3.0	0.50	ug/L
MW-26-1	1924515-07	Total Recoverable Chromium	7/29/2019	3.0		n	u		3.0	0.50	ug/L
MW-26-2	1924515-06	Total Recoverable Chromium	7/29/2019	2.6		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-5-072619	1924515-08	Hexavalent Chromium	7/26/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-11-1	1924515-05	Hexavalent Chromium	7/26/2019	0.0000		y	v j		0.0002	0.0000	mg/L
MW-11-2	1924515-04	Hexavalent Chromium	7/26/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-11-3	1924515-03	Hexavalent Chromium	7/26/2019	0.0002		n	u		0.0002	0.0000	mg/L
MW-26-1	1924515-07	Hexavalent Chromium	8/9/2019	0.0005		y	v		0.0002	0.0000	mg/L
MW-26-2	1924515-06	Hexavalent Chromium	7/26/2019	0.0009		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	1924515-05	Nitrate as N	7/26/2019	2.4		y	v		0.10	0.042	mg/L
MW-11-1	1924515-05	Sulfate	7/26/2019	48		y	v		1.0	0.20	mg/L
MW-11-1	1924515-05	Chloride	7/26/2019	29		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
EB-5-072619	1924515-08	Perchlorate	8/7/2019	4.0		n	u		4.0	0.76	ug/L
MW-11-1	1924515-05	Perchlorate	8/7/2019	1.2		y	v j		4.0	0.76	ug/L

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Analytical Method EPA-314.0											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1924515-04	Perchlorate	8/7/2019	4.0		n	u		4.0	0.76	ug/L
MW-11-3	1924515-03	Perchlorate	8/7/2019	4.0		n	u		4.0	0.76	ug/L
MW-11-4	1924515-02	Perchlorate	8/7/2019	4.0		n	u		4.0	0.76	ug/L
MW-26-1	1924515-07	Perchlorate	8/7/2019	3.1		y	v j		4.0	0.76	ug/L
MW-26-2	1924515-06	Perchlorate	8/7/2019	2.9		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	1924515-05	Nitrite as N	7/27/2019	0.050		n	u		0.050	0.010	mg/L
Analytical Method EPA-365.1											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1924515-05	ortho-Phosphate as P	7/26/2019	0.050		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
EB-5-072619	1924515-08	Diethyl ether	7/31/2019	2.0		n	u		2.0	0.33	ug/L
EB-5-072619	1924515-08	Methacrylonitrile	7/31/2019	10		n	u		10	2.3	ug/L
EB-5-072619	1924515-08	p- & m-Xylenes	7/31/2019	0.50		n	u		0.50	0.34	ug/L
EB-5-072619	1924515-08	o-Xylene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
EB-5-072619	1924515-08	2-Hexanone	7/31/2019	10		n	u		10	5.0	ug/L
EB-5-072619	1924515-08	Hexachloroethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L
EB-5-072619	1924515-08	Ethyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.32	ug/L
EB-5-072619	1924515-08	Chloromethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L
EB-5-072619	1924515-08	Dibromomethane	7/31/2019	0.50		n	u		0.50	0.23	ug/L
EB-5-072619	1924515-08	Ethyl methacrylate	7/31/2019	4.0		n	u		4.0	1.3	ug/L
EB-5-072619	1924515-08	Bromobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-072619	1924515-08	trans-1,4-Dichloro-2-butene	7/31/2019	5.0		n	u	UJ	5.0	1.8	ug/L
EB-5-072619	1924515-08	Carbon disulfide	7/31/2019	1.0		n	u		1.0	0.48	ug/L
EB-5-072619	1924515-08	2-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	4-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.093	ug/L
EB-5-072619	1924515-08	Dibromochloromethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
EB-5-072619	1924515-08	1,2-Dibromo-3-chloropropane	7/31/2019	1.0		n	u		1.0	0.89	ug/L
EB-5-072619	1924515-08	1,2-Dibromoethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
EB-5-072619	1924515-08	t-Amyl Methyl ether	7/31/2019	0.50		n	u		0.50	0.19	ug/L
EB-5-072619	1924515-08	Carbon tetrachloride	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	Tetrahydrofuran	7/31/2019	20		n	u		20	5.2	ug/L
EB-5-072619	1924515-08	Propionitrile	7/31/2019	20		n	u		20	6.2	ug/L
EB-5-072619	1924515-08	Pentachloroethane	7/31/2019	2.0		n	u	UJ	2.0	0.63	ug/L
EB-5-072619	1924515-08	Methyl methacrylate	7/31/2019	5.0		n	u		5.0	1.2	ug/L
EB-5-072619	1924515-08	Methyl isobutyl ketone	7/31/2019	10		n	u		10	2.4	ug/L
EB-5-072619	1924515-08	Methyl iodide	7/31/2019	2.0		n	u	UJ	2.0	1.1	ug/L
EB-5-072619	1924515-08	Chloroform	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	Methyl ethyl ketone	7/31/2019	10		n	u		10	3.3	ug/L
EB-5-072619	1924515-08	Chlorobenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	Benzene	7/31/2019	0.50		n	u		0.50	0.11	ug/L
EB-5-072619	1924515-08	tert-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.18	ug/L
EB-5-072619	1924515-08	sec-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
EB-5-072619	1924515-08	n-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	Bromomethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
EB-5-072619	1924515-08	Bromoform	7/31/2019	0.50		n	u		0.50	0.46	ug/L
EB-5-072619	1924515-08	Bromodichloromethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-072619	1924515-08	Bromochloromethane	7/31/2019	0.50		n	u		0.50	0.27	ug/L
EB-5-072619	1924515-08	t-Butyl alcohol	7/31/2019	10		n	u		10	9.4	ug/L
EB-5-072619	1924515-08	Chloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	1,1,1-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
EB-5-072619	1924515-08	Isopropylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	Methylene chloride	7/31/2019	0.50		n	u		0.50	0.21	ug/L
EB-5-072619	1924515-08	Methyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	Naphthalene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
EB-5-072619	1924515-08	n-Propylbenzene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
EB-5-072619	1924515-08	Styrene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
EB-5-072619	1924515-08	1,1,1,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
EB-5-072619	1924515-08	1,1,2,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	Tetrachloroethene	7/31/2019	0.50		n	u		0.50	0.23	ug/L
EB-5-072619	1924515-08	Toluene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	1,2-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.21	ug/L
EB-5-072619	1924515-08	1,2,4-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	Hexachlorobutadiene	7/31/2019	0.50		n	u		0.50	0.20	ug/L
EB-5-072619	1924515-08	1,1,2-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
EB-5-072619	1924515-08	Trichloroethene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
EB-5-072619	1924515-08	Trichlorofluoromethane	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	1,2,3-Trichloropropane	7/31/2019	1.0		n	u		1.0	0.78	ug/L
EB-5-072619	1924515-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.50		n	u		0.50	0.19	ug/L
EB-5-072619	1924515-08	1,2,4-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	1,3,5-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	Vinyl chloride	7/31/2019	0.50		n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-5-072619	1924515-08	Acetone	7/31/2019	10		n	u		10	6.6	ug/L
EB-5-072619	1924515-08	Acrylonitrile	7/31/2019	5.0		n	u		5.0	1.5	ug/L
EB-5-072619	1924515-08	Allyl chloride	7/31/2019	5.0		n	u		5.0	0.47	ug/L
EB-5-072619	1924515-08	1,2,3-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
EB-5-072619	1924515-08	1,3-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.13	ug/L
EB-5-072619	1924515-08	1,3-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
EB-5-072619	1924515-08	1,4-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	Dichlorodifluoromethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	1,1-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	1,2-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	1,1-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L
EB-5-072619	1924515-08	cis-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L
EB-5-072619	1924515-08	trans-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
EB-5-072619	1924515-08	p-Isopropyltoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	1,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	cis-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
EB-5-072619	1924515-08	1,1-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
EB-5-072619	1924515-08	Ethylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
EB-5-072619	1924515-08	trans-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
EB-5-072619	1924515-08	2,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-1	1924515-05	1,4-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	Dichlorodifluoromethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	1,1-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	1,1-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-1	1924515-05	trans-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1924515-05	Hexachlorobutadiene	7/31/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-1	1924515-05	Ethylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	1,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	1,2-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-1	1924515-05	1,3-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-1	1924515-05	1,3-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-1	1924515-05	2,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-1	1924515-05	cis-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-1	1924515-05	trans-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-1	1924515-05	cis-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	1,1-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-1	1924515-05	Bromoform	7/31/2019	0.50		n	u		0.50	0.46	ug/L
MW-11-1	1924515-05	Chloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-1	1924515-05	Isopropylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	tert-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-1	1924515-05	sec-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-1	1924515-05	n-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	Bromomethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-1	1924515-05	Bromodichloromethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-1	1924515-05	Bromobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	Bromochloromethane	7/31/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-1	1924515-05	Chlorobenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	1,2-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-1	1924515-05	Chloroform	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	Chloromethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1924515-05	2-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	4-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.093	ug/L
MW-11-1	1924515-05	Dibromochloromethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-1	1924515-05	1,2-Dibromo-3-chloropropane	7/31/2019	1.0		n	u		1.0	0.89	ug/L
MW-11-1	1924515-05	1,2-Dibromoethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-1	1924515-05	Dibromomethane	7/31/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-1	1924515-05	Benzene	7/31/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-1	1924515-05	Methacrylonitrile	7/31/2019	10		n	u		10	2.3	ug/L
MW-11-1	1924515-05	p- & m-Xylenes	7/31/2019	0.50		n	u		0.50	0.34	ug/L
MW-11-1	1924515-05	o-Xylene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-1	1924515-05	Carbon tetrachloride	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-1	1924515-05	Tetrahydrofuran	7/31/2019	20		n	u		20	5.2	ug/L
MW-11-1	1924515-05	Propionitrile	7/31/2019	20		n	u		20	6.2	ug/L
MW-11-1	1924515-05	Pentachloroethane	7/31/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-11-1	1924515-05	Methyl methacrylate	7/31/2019	5.0		n	u		5.0	1.2	ug/L
MW-11-1	1924515-05	Methyl isobutyl ketone	7/31/2019	10		n	u		10	2.4	ug/L
MW-11-1	1924515-05	Acetone	7/31/2019	10		n	u		10	6.6	ug/L
MW-11-1	1924515-05	Methyl ethyl ketone	7/31/2019	10		n	u		10	3.3	ug/L
MW-11-1	1924515-05	Vinyl chloride	7/31/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-1	1924515-05	2-Hexanone	7/31/2019	10		n	u		10	5.0	ug/L
MW-11-1	1924515-05	Hexachloroethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-1	1924515-05	Ethyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.32	ug/L
MW-11-1	1924515-05	Ethyl methacrylate	7/31/2019	4.0		n	u		4.0	1.3	ug/L
MW-11-1	1924515-05	Diethyl ether	7/31/2019	2.0		n	u		2.0	0.33	ug/L
MW-11-1	1924515-05	trans-1,4-Dichloro-2-butene	7/31/2019	5.0		n	u	UJ	5.0	1.8	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1924515-05	Carbon disulfide	7/31/2019	1.0		n	u		1.0	0.48	ug/L
MW-11-1	1924515-05	t-Butyl alcohol	7/31/2019	10		n	u		10	9.4	ug/L
MW-11-1	1924515-05	t-Amyl Methyl ether	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-1	1924515-05	Methyl iodide	7/31/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-11-1	1924515-05	1,2,4-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-1	1924515-05	Methylene chloride	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-1	1924515-05	Methyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	Naphthalene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-1	1924515-05	n-Propylbenzene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
MW-11-1	1924515-05	Styrene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
MW-11-1	1924515-05	1,1,1,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-1	1924515-05	Allyl chloride	7/31/2019	5.0		n	u		5.0	0.47	ug/L
MW-11-1	1924515-05	1,1,2,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-1	1924515-05	Tetrachloroethene	7/31/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-1	1924515-05	Acrylonitrile	7/31/2019	5.0		n	u		5.0	1.5	ug/L
MW-11-1	1924515-05	1,2,3-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-1	1924515-05	p-Isopropyltoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	1,1,1-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-1	1924515-05	1,1,2-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-1	1924515-05	Trichloroethene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-1	1924515-05	Trichlorofluoromethane	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-1	1924515-05	1,2,3-Trichloropropane	7/31/2019	1.0		n	u		1.0	0.78	ug/L
MW-11-1	1924515-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-1	1924515-05	1,2,4-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-1	1924515-05	1,3,5-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-1	1924515-05	Toluene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-2	1924515-04	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-2	1924515-04	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-2	1924515-04	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-2	1924515-04	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-11-2	1924515-04	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-11-2	1924515-04	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-2	1924515-04	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-2	1924515-04	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-2	1924515-04	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-2	1924515-04	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-2	1924515-04	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-2	1924515-04	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-2	1924515-04	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1924515-04	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-2	1924515-04	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-11-2	1924515-04	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-2	1924515-04	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-2	1924515-04	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-2	1924515-04	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-2	1924515-04	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-2	1924515-04	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-11-2	1924515-04	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-2	1924515-04	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-2	1924515-04	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-2	1924515-04	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-2	1924515-04	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-11-2	1924515-04	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-2	1924515-04	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-11-2	1924515-04	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-11-2	1924515-04	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-11-2	1924515-04	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-11-2	1924515-04	Acetone	7/30/2019	10		n	u		10	6.6	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1924515-04	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-11-2	1924515-04	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-2	1924515-04	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-11-2	1924515-04	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-11-2	1924515-04	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-11-2	1924515-04	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-11-2	1924515-04	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-11-2	1924515-04	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-11-2	1924515-04	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-11-2	1924515-04	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-11-2	1924515-04	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-11-2	1924515-04	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-2	1924515-04	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-2	1924515-04	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-11-2	1924515-04	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-11-2	1924515-04	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-2	1924515-04	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-2	1924515-04	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-11-2	1924515-04	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-2	1924515-04	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-2	1924515-04	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-2	1924515-04	Trichloroethene	7/30/2019	0.50		n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-2	1924515-04	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-11-2	1924515-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-2	1924515-04	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-2	1924515-04	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-2	1924515-04	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-11-3	1924515-03	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-3	1924515-03	Trichloroethene	7/30/2019	0.23		y	v j		0.50	0.19	ug/L
MW-11-3	1924515-03	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-3	1924515-03	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-3	1924515-03	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-3	1924515-03	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-3	1924515-03	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-11-3	1924515-03	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-3	1924515-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-3	1924515-03	Styrene	7/30/2019	0.35		y	v j		0.50	0.12	ug/L
MW-11-3	1924515-03	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-11-3	1924515-03	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-3	1924515-03	Methyl t-butyl ether	7/30/2019	0.20		y	v j		0.50	0.14	ug/L
MW-11-3	1924515-03	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-3	1924515-03	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-3	1924515-03	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-3	1924515-03	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-11-3	1924515-03	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-11-3	1924515-03	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-11-3	1924515-03	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-11-3	1924515-03	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-3	1924515-03	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-11-3	1924515-03	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-11-3	1924515-03	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-11-3	1924515-03	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-11-3	1924515-03	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-11-3	1924515-03	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-3	1924515-03	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-11-3	1924515-03	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-11-3	1924515-03	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-11-3	1924515-03	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-3	1924515-03	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-3	1924515-03	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-11-3	1924515-03	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-3	1924515-03	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-3	1924515-03	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-3	1924515-03	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-3	1924515-03	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-3	1924515-03	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-3	1924515-03	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-3	1924515-03	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-11-3	1924515-03	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-3	1924515-03	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-3	1924515-03	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-11-3	1924515-03	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-11-3	1924515-03	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-11-3	1924515-03	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-11-3	1924515-03	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-11-3	1924515-03	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-11-3	1924515-03	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-3	1924515-03	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-3	1924515-03	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-3	1924515-03	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-3	1924515-03	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-3	1924515-03	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-3	1924515-03	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-3	1924515-03	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-3	1924515-03	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-3	1924515-03	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-3	1924515-03	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-3	1924515-03	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-3	1924515-03	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-3	1924515-03	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-11-3	1924515-03	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-3	1924515-03	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-3	1924515-03	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-3	1924515-03	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-11-4	1924515-02	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	Acetone	7/30/2019	10		n	u		10	6.6	ug/L
MW-11-4	1924515-02	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-4	1924515-02	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-4	1924515-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-4	1924515-02	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-4	1924515-02	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-4	1924515-02	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-4	1924515-02	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-4	1924515-02	Tetrachloroethene	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-4	1924515-02	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-4	1924515-02	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-4	1924515-02	Styrene	7/30/2019	0.16		y	v j		0.50	0.12	ug/L
MW-11-4	1924515-02	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-11-4	1924515-02	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-4	1924515-02	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-4	1924515-02	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-11-4	1924515-02	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-11-4	1924515-02	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-11-4	1924515-02	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-11-4	1924515-02	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-11-4	1924515-02	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-11-4	1924515-02	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-11-4	1924515-02	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-11-4	1924515-02	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-11-4	1924515-02	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-11-4	1924515-02	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-11-4	1924515-02	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-4	1924515-02	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-11-4	1924515-02	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-11-4	1924515-02	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-11-4	1924515-02	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-11-4	1924515-02	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-11-4	1924515-02	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-4	1924515-02	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-4	1924515-02	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-11-4	1924515-02	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-4	1924515-02	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-11-4	1924515-02	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-4	1924515-02	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-11-4	1924515-02	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-4	1924515-02	Chloroform	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-4	1924515-02	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-4	1924515-02	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-4	1924515-02	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-11-4	1924515-02	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-4	1924515-02	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-4	1924515-02	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-11-4	1924515-02	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-4	1924515-02	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-4	1924515-02	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-11-4	1924515-02	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-4	1924515-02	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-11-4	1924515-02	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-11-4	1924515-02	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-4	1924515-02	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-11-4	1924515-02	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-11-4	1924515-02	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-11-4	1924515-02	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-11-4	1924515-02	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-11-4	1924515-02	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-4	1924515-02	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-11-4	1924515-02	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-11-4	1924515-02	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-11-4	1924515-02	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-11-4	1924515-02	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-11-4	1924515-02	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-11-4	1924515-02	Trichloroethene	7/30/2019	0.30		y	v j		0.50	0.19	ug/L
MW-26-1	1924515-07	1,2-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	trans-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-26-1	1924515-07	cis-1,3-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	1,1-Dichloropropene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-1	1924515-07	2,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-26-1	1924515-07	1,3-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1924515-07	1,2-Dichloropropane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	trans-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-1	1924515-07	1,1-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-26-1	1924515-07	Isopropylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	1,1-Dichloroethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	Dichlorodifluoromethane	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	1,4-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	1,3-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-26-1	1924515-07	1,2-Dichlorobenzene	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-1	1924515-07	Dibromomethane	7/30/2019	0.50		n	u		0.50	0.23	ug/L
MW-26-1	1924515-07	cis-1,2-Dichloroethene	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-26-1	1924515-07	1,1,2,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	1,2,3-Trichloropropane	7/30/2019	1.0		n	u		1.0	0.78	ug/L
MW-26-1	1924515-07	Trichlorofluoromethane	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	Trichloroethene	7/30/2019	0.28		y	v j		0.50	0.19	ug/L
MW-26-1	1924515-07	1,1,2-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-1	1924515-07	1,1,1-Trichloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-1	1924515-07	1,2,4-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	1,2,3-Trichlorobenzene	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-1	1924515-07	Ethylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	Tetrachloroethene	7/30/2019	0.90		y	v		0.50	0.23	ug/L
MW-26-1	1924515-07	Hexachlorobutadiene	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-26-1	1924515-07	1,1,1,2-Tetrachloroethane	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-1	1924515-07	Styrene	7/30/2019	0.50		n	u		0.50	0.12	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1924515-07	n-Propylbenzene	7/30/2019	0.50		n	u		0.50	0.12	ug/L
MW-26-1	1924515-07	Naphthalene	7/30/2019	0.50		n	u		0.50	0.16	ug/L
MW-26-1	1924515-07	Methyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	Methylene chloride	7/30/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-1	1924515-07	p-Isopropyltoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	Dibromochloromethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-26-1	1924515-07	Toluene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	Methyl iodide	7/30/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-26-1	1924515-07	1,2-Dibromoethane	7/30/2019	0.50		n	u		0.50	0.22	ug/L
MW-26-1	1924515-07	trans-1,4-Dichloro-2-butene	7/30/2019	5.0		n	u		5.0	1.8	ug/L
MW-26-1	1924515-07	Diethyl ether	7/30/2019	2.0		n	u		2.0	0.33	ug/L
MW-26-1	1924515-07	Ethyl methacrylate	7/30/2019	4.0		n	u		4.0	1.3	ug/L
MW-26-1	1924515-07	Ethyl t-butyl ether	7/30/2019	0.50		n	u		0.50	0.32	ug/L
MW-26-1	1924515-07	Hexachloroethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-26-1	1924515-07	2-Hexanone	7/30/2019	10		n	u		10	5.0	ug/L
MW-26-1	1924515-07	t-Butyl alcohol	7/30/2019	10		n	u		10	9.4	ug/L
MW-26-1	1924515-07	Methyl ethyl ketone	7/30/2019	10		n	u		10	3.3	ug/L
MW-26-1	1924515-07	t-Amyl Methyl ether	7/30/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-1	1924515-07	Methyl isobutyl ketone	7/30/2019	10		n	u		10	2.4	ug/L
MW-26-1	1924515-07	Methyl methacrylate	7/30/2019	5.0		n	u		5.0	1.2	ug/L
MW-26-1	1924515-07	Pentachloroethane	7/30/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-26-1	1924515-07	Propionitrile	7/30/2019	20		n	u		20	6.2	ug/L
MW-26-1	1924515-07	Tetrahydrofuran	7/30/2019	20		n	u		20	5.2	ug/L
MW-26-1	1924515-07	p- & m-Xylenes	7/30/2019	0.50		n	u		0.50	0.34	ug/L
MW-26-1	1924515-07	o-Xylene	7/30/2019	0.50		n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-1	1924515-07	Methacrylonitrile	7/30/2019	10		n	u		10	2.3	ug/L
MW-26-1	1924515-07	Bromomethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-26-1	1924515-07	Chloroform	7/30/2019	0.65		y	v		0.50	0.14	ug/L
MW-26-1	1924515-07	4-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.093	ug/L
MW-26-1	1924515-07	2-Chlorotoluene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	Chloromethane	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-26-1	1924515-07	Chloroethane	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	Carbon tetrachloride	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	tert-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-26-1	1924515-07	Carbon disulfide	7/30/2019	1.0		n	u		1.0	0.48	ug/L
MW-26-1	1924515-07	n-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	1,2-Dibromo-3-chloropropane	7/30/2019	1.0		n	u		1.0	0.89	ug/L
MW-26-1	1924515-07	Bromoform	7/30/2019	0.50		n	u		0.50	0.46	ug/L
MW-26-1	1924515-07	Bromodichloromethane	7/30/2019	0.50		n	u		0.50	0.20	ug/L
MW-26-1	1924515-07	Bromochloromethane	7/30/2019	0.50		n	u		0.50	0.27	ug/L
MW-26-1	1924515-07	Bromobenzene	7/30/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-1	1924515-07	Benzene	7/30/2019	0.50		n	u		0.50	0.11	ug/L
MW-26-1	1924515-07	Acrylonitrile	7/30/2019	5.0		n	u		5.0	1.5	ug/L
MW-26-1	1924515-07	Allyl chloride	7/30/2019	5.0		n	u		5.0	0.47	ug/L
MW-26-1	1924515-07	sec-Butylbenzene	7/30/2019	0.50		n	u		0.50	0.13	ug/L
MW-26-1	1924515-07	1,3,5-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	Vinyl chloride	7/30/2019	0.50		n	u		0.50	0.18	ug/L
MW-26-1	1924515-07	Chlorobenzene	7/30/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-1	1924515-07	1,2,4-Trimethylbenzene	7/30/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-1	1924515-07	Acetone	7/30/2019	10		n	u		10	6.6	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1924515-06	1,1-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-2	1924515-06	1,2,4-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	1,3,5-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	n-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	Bromomethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
MW-26-2	1924515-06	Bromoform	7/31/2019	0.50		n	u		0.50	0.46	ug/L
MW-26-2	1924515-06	Bromodichloromethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
MW-26-2	1924515-06	Bromochloromethane	7/31/2019	0.50		n	u		0.50	0.27	ug/L
MW-26-2	1924515-06	Bromobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	Hexachlorobutadiene	7/31/2019	0.50		n	u		0.50	0.20	ug/L
MW-26-2	1924515-06	cis-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	Trichlorofluoromethane	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	2,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.18	ug/L
MW-26-2	1924515-06	1,3-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-26-2	1924515-06	1,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	trans-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	cis-1,2-Dichloroethene	7/31/2019	0.34		y	v j		0.50	0.27	ug/L
MW-26-2	1924515-06	1,1-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L
MW-26-2	1924515-06	trans-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-26-2	1924515-06	Tetrachloroethene	7/31/2019	2.2		y	v		0.50	0.23	ug/L
MW-26-2	1924515-06	Isopropylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	p-Isopropyltoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	Methylene chloride	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-2	1924515-06	Methyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	Naphthalene	7/31/2019	0.50		n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1924515-06	n-Propylbenzene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
MW-26-2	1924515-06	Styrene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
MW-26-2	1924515-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-2	1924515-06	1,1,2,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	1,2-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	Toluene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	1,2,3-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-2	1924515-06	1,2,4-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	1,1,1-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-2	1924515-06	1,1,2-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-2	1924515-06	Trichloroethene	7/31/2019	0.28		y	v j		0.50	0.19	ug/L
MW-26-2	1924515-06	Ethylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	1,2,3-Trichloropropane	7/31/2019	1.0		n	u		1.0	0.78	ug/L
MW-26-2	1924515-06	1,1,1,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-2	1924515-06	Vinyl chloride	7/31/2019	0.50		n	u		0.50	0.18	ug/L
MW-26-2	1924515-06	Acrylonitrile	7/31/2019	5.0		n	u		5.0	1.5	ug/L
MW-26-2	1924515-06	Allyl chloride	7/31/2019	5.0		n	u		5.0	0.47	ug/L
MW-26-2	1924515-06	t-Amyl Methyl ether	7/31/2019	0.50		n	u		0.50	0.19	ug/L
MW-26-2	1924515-06	t-Butyl alcohol	7/31/2019	10		n	u		10	9.4	ug/L
MW-26-2	1924515-06	Carbon disulfide	7/31/2019	1.0		n	u		1.0	0.48	ug/L
MW-26-2	1924515-06	trans-1,4-Dichloro-2-butene	7/31/2019	5.0		n	u	UJ	5.0	1.8	ug/L
MW-26-2	1924515-06	Diethyl ether	7/31/2019	2.0		n	u		2.0	0.33	ug/L
MW-26-2	1924515-06	Ethyl methacrylate	7/31/2019	4.0		n	u		4.0	1.3	ug/L
MW-26-2	1924515-06	Acetone	7/31/2019	10		n	u		10	6.6	ug/L
MW-26-2	1924515-06	Hexachloroethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1924515-06	2-Hexanone	7/31/2019	10		n	u		10	5.0	ug/L
MW-26-2	1924515-06	Methacrylonitrile	7/31/2019	10		n	u		10	2.3	ug/L
MW-26-2	1924515-06	o-Xylene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-26-2	1924515-06	Methyl iodide	7/31/2019	2.0		n	u	UJ	2.0	1.1	ug/L
MW-26-2	1924515-06	Methyl isobutyl ketone	7/31/2019	10		n	u		10	2.4	ug/L
MW-26-2	1924515-06	Methyl methacrylate	7/31/2019	5.0		n	u		5.0	1.2	ug/L
MW-26-2	1924515-06	Pentachloroethane	7/31/2019	2.0		n	u	UJ	2.0	0.63	ug/L
MW-26-2	1924515-06	Propionitrile	7/31/2019	20		n	u		20	6.2	ug/L
MW-26-2	1924515-06	Tetrahydrofuran	7/31/2019	20		n	u		20	5.2	ug/L
MW-26-2	1924515-06	p- & m-Xylenes	7/31/2019	0.50		n	u		0.50	0.34	ug/L
MW-26-2	1924515-06	Ethyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.32	ug/L
MW-26-2	1924515-06	Dibromomethane	7/31/2019	0.50		n	u		0.50	0.23	ug/L
MW-26-2	1924515-06	Methyl ethyl ketone	7/31/2019	10		n	u		10	3.3	ug/L
MW-26-2	1924515-06	sec-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
MW-26-2	1924515-06	1,1-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	Dichlorodifluoromethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	1,4-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
MW-26-2	1924515-06	1,2-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.21	ug/L
MW-26-2	1924515-06	Benzene	7/31/2019	0.50		n	u		0.50	0.11	ug/L
MW-26-2	1924515-06	1,2-Dibromoethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
MW-26-2	1924515-06	1,2-Dibromo-3-chloropropane	7/31/2019	1.0		n	u		1.0	0.89	ug/L
MW-26-2	1924515-06	Dibromochloromethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
MW-26-2	1924515-06	Carbon tetrachloride	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	4-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.093	ug/L
MW-26-2	1924515-06	2-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-26-2	1924515-06	Chloromethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L
MW-26-2	1924515-06	Chloroform	7/31/2019	2.1		y	v		0.50	0.14	ug/L
MW-26-2	1924515-06	Chloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
MW-26-2	1924515-06	Chlorobenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
MW-26-2	1924515-06	1,3-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
MW-26-2	1924515-06	tert-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.18	ug/L
TB-5-072619	1924515-01	2-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	4-Chlorotoluene	7/31/2019	0.50		n	u		0.50	0.093	ug/L
TB-5-072619	1924515-01	Dibromochloromethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
TB-5-072619	1924515-01	1,2-Dibromo-3-chloropropane	7/31/2019	1.0		n	u		1.0	0.89	ug/L
TB-5-072619	1924515-01	1,2-Dibromoethane	7/31/2019	0.50		n	u		0.50	0.22	ug/L
TB-5-072619	1924515-01	Dibromomethane	7/31/2019	0.50		n	u		0.50	0.23	ug/L
TB-5-072619	1924515-01	1,2-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.21	ug/L
TB-5-072619	1924515-01	1,4-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	Dichlorodifluoromethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	Chloromethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L
TB-5-072619	1924515-01	Bromobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	1,1-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	1,3-Dichlorobenzene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
TB-5-072619	1924515-01	Chloroform	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	Chloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	Chlorobenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	Carbon tetrachloride	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	tert-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.18	ug/L
TB-5-072619	1924515-01	sec-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.13	ug/L

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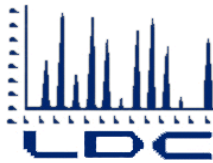
Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-072619	1924515-01	n-Butylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	Bromomethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
TB-5-072619	1924515-01	Bromoform	7/31/2019	0.50		n	u		0.50	0.46	ug/L
TB-5-072619	1924515-01	Bromochloromethane	7/31/2019	0.50		n	u		0.50	0.27	ug/L
TB-5-072619	1924515-01	Benzene	7/31/2019	0.50		n	u		0.50	0.11	ug/L
TB-5-072619	1924515-01	1,2,4-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	1,2-Dichloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	Bromodichloromethane	7/31/2019	0.50		n	u		0.50	0.20	ug/L
TB-5-072619	1924515-01	Hexachloroethane	7/31/2019	0.50		n	u		0.50	0.11	ug/L
TB-5-072619	1924515-01	1,2,3-Trichloropropane	7/31/2019	1.0		n	u		1.0	0.78	ug/L
TB-5-072619	1924515-01	1,3,5-Trimethylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	Vinyl chloride	7/31/2019	0.50		n	u		0.50	0.18	ug/L
TB-5-072619	1924515-01	Acetone	7/31/2019	10		n	u		10	6.6	ug/L
TB-5-072619	1924515-01	Acrylonitrile	7/31/2019	5.0		n	u		5.0	1.5	ug/L
TB-5-072619	1924515-01	Allyl chloride	7/31/2019	5.0		n	u		5.0	0.47	ug/L
TB-5-072619	1924515-01	t-Amyl Methyl ether	7/31/2019	0.50		n	u		0.50	0.19	ug/L
TB-5-072619	1924515-01	t-Butyl alcohol	7/31/2019	10		n	u		10	9.4	ug/L
TB-5-072619	1924515-01	Carbon disulfide	7/31/2019	1.0		n	u		1.0	0.48	ug/L
TB-5-072619	1924515-01	trans-1,4-Dichloro-2-butene	7/31/2019	5.0		n	u	UJ	5.0	1.8	ug/L
TB-5-072619	1924515-01	Diethyl ether	7/31/2019	2.0		n	u		2.0	0.33	ug/L
TB-5-072619	1924515-01	Trichlorofluoromethane	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	Ethyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.32	ug/L
TB-5-072619	1924515-01	Trichloroethene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
TB-5-072619	1924515-01	2-Hexanone	7/31/2019	10		n	u		10	5.0	ug/L
TB-5-072619	1924515-01	Methacrylonitrile	7/31/2019	10		n	u		10	2.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-5-072619	1924515-01	Methyl ethyl ketone	7/31/2019	10		n	u		10	3.3	ug/L
TB-5-072619	1924515-01	Methyl iodide	7/31/2019	2.0		n	u	UJ	2.0	1.1	ug/L
TB-5-072619	1924515-01	Methyl isobutyl ketone	7/31/2019	10		n	u		10	2.4	ug/L
TB-5-072619	1924515-01	Methyl methacrylate	7/31/2019	5.0		n	u		5.0	1.2	ug/L
TB-5-072619	1924515-01	Pentachloroethane	7/31/2019	2.0		n	u	UJ	2.0	0.63	ug/L
TB-5-072619	1924515-01	Propionitrile	7/31/2019	20		n	u		20	6.2	ug/L
TB-5-072619	1924515-01	Tetrahydrofuran	7/31/2019	20		n	u		20	5.2	ug/L
TB-5-072619	1924515-01	p- & m-Xylenes	7/31/2019	0.50		n	u		0.50	0.34	ug/L
TB-5-072619	1924515-01	o-Xylene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
TB-5-072619	1924515-01	Ethyl methacrylate	7/31/2019	4.0		n	u		4.0	1.3	ug/L
TB-5-072619	1924515-01	Methyl t-butyl ether	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	cis-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L
TB-5-072619	1924515-01	trans-1,2-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	1,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	1,3-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.13	ug/L
TB-5-072619	1924515-01	2,2-Dichloropropane	7/31/2019	0.50		n	u		0.50	0.18	ug/L
TB-5-072619	1924515-01	1,1-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
TB-5-072619	1924515-01	cis-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	trans-1,3-Dichloropropene	7/31/2019	0.50		n	u		0.50	0.13	ug/L
TB-5-072619	1924515-01	Ethylbenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	Hexachlorobutadiene	7/31/2019	0.50		n	u		0.50	0.20	ug/L
TB-5-072619	1924515-01	Isopropylbenzene	7/31/2019	0.50		n	u		0.50	0.14	ug/L
TB-5-072619	1924515-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.50		n	u		0.50	0.19	ug/L
TB-5-072619	1924515-01	Methylene chloride	7/31/2019	0.50		n	u		0.50	0.21	ug/L
TB-5-072619	1924515-01	1,1-Dichloroethene	7/31/2019	0.50		n	u		0.50	0.27	ug/L

SDG: 1924515

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-5-072619	1924515-01	Naphthalene	7/31/2019	0.50		n	u		0.50	0.16	ug/L
TB-5-072619	1924515-01	n-Propylbenzene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
TB-5-072619	1924515-01	Styrene	7/31/2019	0.50		n	u		0.50	0.12	ug/L
TB-5-072619	1924515-01	1,1,1,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
TB-5-072619	1924515-01	1,1,2,2-Tetrachloroethane	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	Tetrachloroethene	7/31/2019	0.50		n	u		0.50	0.23	ug/L
TB-5-072619	1924515-01	Toluene	7/31/2019	0.50		n	u		0.50	0.17	ug/L
TB-5-072619	1924515-01	1,2,3-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.19	ug/L
TB-5-072619	1924515-01	1,2,4-Trichlorobenzene	7/31/2019	0.50		n	u		0.50	0.15	ug/L
TB-5-072619	1924515-01	1,1,1-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
TB-5-072619	1924515-01	1,1,2-Trichloroethane	7/31/2019	0.50		n	u		0.50	0.21	ug/L
TB-5-072619	1924515-01	p-Isopropyltoluene	7/31/2019	0.50		n	u		0.50	0.14	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

September 23, 2019

SUBJECT: NASA JPL, 3Q2019, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on August 29, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #45845:

<u>SDG #</u>	<u>Fraction</u>
1924666, 1924789 1924989, 1925133 1925507	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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 17, 2019
Parameters: Volatiles
Validation Level: Level III & IV
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1924666

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-6-072919	1924666-01	Water	07/29/19
MW-4-3	1924666-02	Water	07/29/19
MW-4-2	1924666-03	Water	07/29/19
MW-4-1	1924666-04	Water	07/29/19
MW-12-5	1924666-05	Water	07/29/19
MW-12-4	1924666-06	Water	07/29/19
MW-12-3**	1924666-07**	Water	07/29/19
MW-12-2	1924666-08	Water	07/29/19
MW-12-1	1924666-09	Water	07/29/19
EB-6-072919	1924666-10	Water	07/29/19
SB-2-072919	1924666-11	Water	07/29/19

**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
07/30/19	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	35.6 40.6 95.8	All samples in SDG 1924666	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-6-072919 was identified as a trip blank. No contaminants were found.

Sample EB-6-072919 was identified as an equipment blank. No contaminants were found.

Sample SB-2-072919 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1924666

Sample	Compound	Flag	A or P	Reason
TB-6-072919 MW-4-3 MW-4-2 MW-4-1 MW-12-5 MW-12-4 MW-12-3** MW-12-2 MW-12-1 EB-6-072919 SB-2-072919	trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924666

No Sample Data Qualified in this SDG

LDC #: 45845A1a

VALIDATION COMPLETENESS WORKSHEET

Date: 09/16/19

SDG #: 1924666

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: DB
2nd Reviewer: CF

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 ≤ 26% r ² ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 10 SB = 11
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	1924372-03
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

Note: A = Acceptable

N = Not provided/applicable

SW = See worksheet

ND = No compounds detected

R = Rinsate

FB = Field blank

D = Duplicate

TB = Trip blank

EB = Equipment blank

SB=Source blank

OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-6-072919	1924666-01	Water	07/29/19
2	MW-4-3	1924666-02	Water	07/29/19
3	MW-4-2	1924666-03	Water	07/29/19
4	MW-4-1	1924666-04	Water	07/29/19
5	MW-12-5	1924666-05	Water	07/29/19
6	MW-12-4	1924666-06	Water	07/29/19
7	MW-12-3**	1924666-07**	Water	07/29/19
8	MW-12-2	1924666-08	Water	07/29/19
9	MW-12-1	1924666-09	Water	07/29/19
10	EB-6-072919	1924666-10	Water	07/29/19
11	SB-2-072919	1924666-11	Water	07/29/19
12				
13	B052354 - Blk 1			

1914599 - CCB2

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				
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) \leq 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 \leq 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Were field blanks identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were target compounds detected in the field blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in 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 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"/>	

LDC #: 45845 A1a

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: JYG
 2nd Reviewer: _____

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. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. Methyl iodide	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 45845A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of Compound

C_x = Concentration of compound,

S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL MS V5	07/29/19	Chloroform (PFB)	0.948037	0.948037	0.905241	0.905241	11.696	11.696
			Trichloroethene (CBZ)	0.336400	0.336400	0.337130	0.337130	13.209	13.209
			1,1,2,2-TCA (DFB)	0.519576	0.519576	0.525552	0.525552	11.826	11.826
2	ICAL MS V5	07/25/19	Carbon disulfide (PFB)	1.436964	1.436964	1.409816	1.409816	4.490	4.490
			Methyl methacrylate (CBZ)	0.081171	0.081171	0.082233	0.082233	5.983	5.983
			Pentachloroethane (DFB)	see r2 calc					

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS Volatiles (EPA Method 524.2)

Parameter: Pentachloroethane

Calibration Date	Instrument/Column	Compound	Standard	(Y) Response ratio	(X) Conc. Ratio	(X ²) Conc. Ratio
7/25/2019	MSV5	Pentachloroethane	1	0.00951	0.08000	0.00640
			2	0.06905	0.32000	0.1024
			3	0.07998	0.80000	0.6400
			4	0.26244	1.60000	2.5600
			5	0.43018	2.40000	5.7600
			6	0.79991	4.00000	16.0000

Regression Output	Calculated	Reported
Constant	c = -0.000486	-0.000486
R Squared	r ² = 0.9950565	0.9950565
X Coefficient(s)	m1 = 1.3428E-01	1.3428E-01
Std Err of Coef.	m2 = 1.66986E-02	1.6699E-02
Correlation Coefficient	0.997525	
Coefficient of Determination (r ²)	0.995057	

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

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

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	30JUL02 MS V5	07/30/19	Chloroform (PFB)	0.905241	0.922962	0.922962	2.0	2.0
			Trichloroethene (CBZ)	0.337130	0.335179	0.335179	0.6	0.6
			1,1,2,2-TCA (DFB)	0.525552	0.531930	0.531930	1.2	1.2
	30JUL03 MS V5	07/30/19	Carbon disulfide (PFB)	1.409816	1.310365	1.310365	7.1	7.1
			Methyl methacrylate (CBZ)	0.082233	0.078294	0.078294	4.8	4.8
			Pentachloroethane (DFB)	16.00	31.56	31.56	97.2	97.2
2	30JUL31 MS V5	07/30/19	Chloroform (PFB)	0.905241	0.879719	0.879719	2.8	2.8
			Trichloroethene (CBZ)	0.337130	0.345452	0.345452	2.5	2.5
			1,1,2,2-TCA (DFB)	0.525552	0.483033	0.483033	8.1	8.1
	30JUL32 MS V5	07/30/19	Carbon disulfide (PFB)	1.409816	1.376221	1.376221	2.4	2.4
			Methyl methacrylate (CBZ)	0.082233	0.077238	0.077238	6.1	6.1
			Pentachloroethane (DFB)	16.00	0.68	0.68	95.8	95.8

LDC #: 45845 A1a

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 7

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	10.78	104	104	0
Bromofluorobenzene	↓	9.84	98.4	98.4	↓
1,2-Dichlorobenzene-d4	↓	10.51	105	105	↓
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 #: 45845 A1a

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: 1924372-03 MS/MSD

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	27.63	26.5	108	108	106	106	1.98	1.98
Trichloroethene	↓	↓	0.19	27.25	27.77	108	108	106	106	1.78	1.78
Benzene	↓	↓	0	26.63	26.42	107	107	106	106	0.792	0.79
Toluene	↓	↓	↓	25.29	24.89	101	101	99.6	99.6	1.59	1.59
Chlorobenzene	↓	↓	↓	26.55	27.63	106	106	108	108	1.79	1.79

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 #: 45845 A1a

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: 10052354-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	29.13	NA	117	117				
Trichloroethene	↓	↓	27.98	↓	112	112				
Benzene	↓	↓	27.42	↓	110	110				
Toluene	↓	↓	26.06	↓	104	104				
Chlorobenzene	↓	↓	28.18	↓	113	113				

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/Si te Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924666

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-3	1924666-02	Water	07/29/19
MW-4-2	1924666-03	Water	07/29/19
MW-4-1	1924666-04	Water	07/29/19
MW-12-3**	1924666-07**	Water	07/29/19
MW-12-2	1924666-08	Water	07/29/19
MW-12-1	1924666-09	Water	07/29/19
EB-6-072919	1924666-10	Water	07/29/19
SB-2-072919	1924666-11	Water	07/29/19
MW-4-2MS	1924666-03MS	Water	07/29/19
MW-4-2MSD	1924666-03MSD	Water	07/29/19
MW-4-2DUP	1924666-03DUP	Water	07/29/19

**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 with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	0.553 ug/L	MW-4-3 MW-4-2 MW-4-1 MW-12-2 MW-12-1 EB-6-072919 SB-2-072919
ICB/CCB	Chromium	0.828 ug/L	MW-12-3**

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

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-4-2	Chromium	2.2 ug/L	2.2U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-4-1	Chromium	1.1 ug/L	1.1U ug/L
MW-12-2	Chromium	2.2 ug/L	2.2U ug/L
MW-12-1	Chromium	1.1 ug/L	1.1U ug/L
SB-2-072919	Chromium	0.56 ug/L	0.56U ug/L
MW-12-3**	Chromium	1.2 ug/L	1.2U ug/L

VI. Field Blanks

Sample EB-6-072919 was identified as an equipment blank. No contaminants were found.

Sample SB-2-072919 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
SB-2-072919	Chromium	0.56 ug/L

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

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

NASA JPL, 3Q2019
Chromium - Data Qualification Summary - SDG 1924666

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924666

Sample	Analyte	Modified Final Concentration	A or P
MW-4-2	Chromium	2.2U ug/L	A
MW-4-1	Chromium	1.1U ug/L	A
MW-12-2	Chromium	2.2U ug/L	A
MW-12-1	Chromium	1.1U ug/L	A
SB-2-072919	Chromium	0.56U ug/L	A
MW-12-3**	Chromium	1.2U ug/L	A

LDC #: 45845A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/11/19

SDG #: 1924666

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATK

2nd Reviewer: C

METHOD: Chromium (EPA Method 200.8)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB=7, SB=8
VII.	Matrix Spike/Matrix Spike Duplicates	A	(9,10)
VIII.	Duplicate sample analysis	A	11
IX.	Serial Dilution		
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-4-3	1924666-02	Water	07/29/19
2	MW-4-2	1924666-03	Water	07/29/19
3	MW-4-1	1924666-04	Water	07/29/19
4	MW-12-3**	1924666-07**	Water	07/29/19
5	MW-12-2	1924666-08	Water	07/29/19
6	MW-12-1	1924666-09	Water	07/29/19
7	EB-6-072919	1924666-10	Water	07/29/19
8	SB-2-072919	1924666-11	Water	07/29/19
9	MW-4-2MS	1924666-03MS	Water	07/29/19
10	MW-4-2MSD	1924666-03MSD	Water	07/29/19
11	MW-4-2DUP	1924666-03DUP	Water	07/29/19
12				

Notes: _____

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

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

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

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

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

Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 1,2,3, 5 to 8

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	2	3	5	6	8				
Cr		0.553		2.765	2.2	1.1	2.2	1.1	0.56				

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: 4

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Level	4								
Cr		0.828		4.14	1.2								

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

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

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) 7131 e 10:08	Cr	51.506	50.000	103	103	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV4	ICP/MS (Continuing calibration) 7131 e 12:24	Cr	40.879	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	102.905	102.925	± 0.1 AMU	NA	Y
	%RSD	114.9	432952.6	≤ 5% RSD	0.3	Y

Comments:

LDC #: 45845A4a

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	Mg/L Found / S / I (units)	Mg/L True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 7/31 e 11:37	Cr	42.001	40.000	105	105	Y
9	Matrix spike 7/31 e 00:16	Cr	(SSR-SR)	40.000		95.4	Y
9/10	Duplicate 7/31 e 00:19	Cr		40.344		3.53	Y
2	Post digestion spike 7/31 e 00:23	Cr		40.000		95.9	Y
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924666

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-4-3	1924666-02	Water	07/29/19
MW-4-2	1924666-03	Water	07/29/19
MW-4-1	1924666-04	Water	07/29/19
MW-12-5	1924666-05	Water	07/29/19
MW-12-4	1924666-06	Water	07/29/19
MW-12-3**	1924666-07**	Water	07/29/19
MW-12-2	1924666-08	Water	07/29/19
MW-12-1	1924666-09	Water	07/29/19
EB-6-072919	1924666-10	Water	07/29/19
SB-2-072919	1924666-11	Water	07/29/19
MW-4-3MS	1924666-02MS	Water	07/29/19
MW-4-3MSD	1924666-02MSD	Water	07/29/19
MW-4-3DUP	1924666-02DUP	Water	07/29/19
MW-12-3MS	1924666-07MS	Water	07/29/19
MW-12-3MSD	1924666-07MSD	Water	07/29/19
MW-12-3DUP	1924666-07DUP	Water	07/29/19

**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-6-072919 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-6-072919	Hexavalent chromium	0.000049 mg/L

Sample SB-2-072919 was identified as a source blank. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924666

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924666

No Sample Data Qualified in this SDG

LDC #: 45845A6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/11/19

SDG #: 1924666

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

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	SW	EB=9, SB=10
VI.	Matrix Spike/Matrix Spike Duplicates	A	(11,12), (14,15)
VII.	Duplicate sample analysis	A	B, 16
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for Level III validation
XI.	Overall assessment of data	A	

Note: A = Acceptable
 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-4-3	1924666-02	Water	07/29/19
2	MW-4-2	1924666-03	Water	07/29/19
3	MW-4-1	1924666-04	Water	07/29/19
4	MW-12-5	1924666-05	Water	07/29/19
5	MW-12-4	1924666-06	Water	07/29/19
6	MW-12-3**	1924666-07**	Water	07/29/19
7	MW-12-2	1924666-08	Water	07/29/19
8	MW-12-1	1924666-09	Water	07/29/19
9	EB-6-072919	1924666-10	Water	07/29/19
10	SB-2-072919	1924666-11	Water	07/29/19
11	MW-4-3MS	1924666-02MS	Water	07/29/19
12	MW-4-3MSD	1924666-02MSD	Water	07/29/19
13	MW-4-3DUP	1924666-02DUP	Water	07/29/19
14	MW-12-3MS	1924666-07MS	Water	07/29/19
15	MW-12-3MSD	1924666-07MSD	Water	07/29/19
16	MW-12-3DUP	1924666-07DUP	Water	07/29/19
17				

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.		✓		
II. Calibration				
Were all instruments calibrated daily, each set-up time?		✓		
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995 ?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? <u>85-115%</u>	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\leq \text{CRDL} (\leq 2X \text{ CRDL for soil})$ was used for samples that were $\leq 5X$ the CRDL, including when only one of the duplicate sample values were $\leq 5X$ 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
1,2,3,6 > 10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
1 > 10	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <u>ClO₄</u>
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ 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
14,15,16	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC <u>Cr6+</u> ClO ₄
11,12,13	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ <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

Comments: _____

LDC #: 45845A6

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: 07/29/19

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	0.02	0.9995	0.9996	Y
		s2	2	0.218			
		s3	10	1.057			
		s4	25	2.759			
		s5	50	5.293			
CCV ₂ (7/30 e12:16) Calibration verification	Cr6+	FOUND 25.24	TRUE 25.00		101	101	Y
CCV ₁ (8/12 e 21:44) Calibration verification	ClO ₄ ⁻	10.000	10.000		100	98.7	Y
CCV ₂ (8/13 e 00:49) Calibration verification	ClO ₄ ⁻	11.000	10.000		110	112	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 #: 45845AG

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: ATC
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 8/12 @ 19:57	NO ₃ ⁻	11.000 mg/L	10.000 mg/L	110	115	Y
14	Matrix spike sample 7/30 @ 13:13	Cr6+	(SSR-SR) 0.019877 mg/L	0.020202 mg/L	98.4	98.4	Y
14/15	Duplicate sample 7/30 @ 13:23	Cr6+	0.020677 mg/L	0.020171 mg/L	2.48	2.44	Y

Comments: _____

NASA JPL, Q2019 - LDC# 45845A

SDG: 1924666

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-6-072919	1924666-10	Total Recoverable Chromium	7/31/2019	3	Y	n	u		3.0	0.50	ug/L
MW-12-1	1924666-09	Total Recoverable Chromium	7/31/2019	1.1	Y	y	v j	U	3.0	0.50	ug/L
MW-12-2	1924666-08	Total Recoverable Chromium	7/31/2019	2.2	Y	y	v j	U	3.0	0.50	ug/L
MW-12-3	1924666-07	Total Recoverable Chromium	7/31/2019	1.2	Y	y	v j	U	3.0	0.50	ug/L
MW-4-1	1924666-04	Total Recoverable Chromium	7/31/2019	1.1	Y	y	v j	U	3.0	0.50	ug/L
MW-4-2	1924666-03	Total Recoverable Chromium	7/31/2019	2.2	Y	y	v j	U	3.0	0.50	ug/L
MW-4-3	1924666-02	Total Recoverable Chromium	7/31/2019	53	Y	y	v		3.0	0.50	ug/L
SB-2-072919	1924666-11	Total Recoverable Chromium	7/31/2019	0.56	Y	y	v j	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-6-072919	1924666-10	Hexavalent Chromium	7/30/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-12-1	1924666-09	Hexavalent Chromium	7/30/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-12-2	1924666-08	Hexavalent Chromium	7/30/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-12-3	1924666-07	Hexavalent Chromium	7/30/2019	0.0003	Y	y	v		0.0002	0.0000	mg/L
MW-4-1	1924666-04	Hexavalent Chromium	7/30/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-4-2	1924666-03	Hexavalent Chromium	7/30/2019	0.0011	Y	y	v		0.0002	0.0000	mg/L
MW-4-3	1924666-02	Hexavalent Chromium	7/30/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
SB-2-072919	1924666-11	Hexavalent Chromium	7/30/2019	0.0002	Y	n	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-6-072919	1924666-10	Perchlorate	8/12/2019	4	Y	n	u		4.0	0.76	ug/L
MW-12-1	1924666-09	Perchlorate	8/12/2019	4	Y	n	u		4.0	0.76	ug/L
MW-12-2	1924666-08	Perchlorate	8/12/2019	4	Y	n	u		4.0	0.76	ug/L

SDG: 1924666

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-12-3	1924666-07	Perchlorate	8/12/2019	4.9	Y	y	v		4.0	0.76	ug/L
MW-12-4	1924666-06	Perchlorate	8/13/2019	2.6	Y	y	v j		4.0	0.76	ug/L
MW-12-5	1924666-05	Perchlorate	8/13/2019	2.2	Y	y	v j		4.0	0.76	ug/L
MW-4-1	1924666-04	Perchlorate	8/12/2019	4	Y	n	u		4.0	0.76	ug/L
MW-4-2	1924666-03	Perchlorate	8/13/2019	34	Y	y	v		8.0	1.5	ug/L
MW-4-3	1924666-02	Perchlorate	8/12/2019	4	Y	n	u		4.0	0.76	ug/L
SB-2-072919	1924666-11	Perchlorate	8/12/2019	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-6-072919	1924666-10	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-072919	1924666-10	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-072919	1924666-10	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-072919	1924666-10	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-072919	1924666-10	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-072919	1924666-10	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-072919	1924666-10	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-072919	1924666-10	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-072919	1924666-10	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L

SDG: 1924666

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-6-072919	1924666-10	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-072919	1924666-10	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-6-072919	1924666-10	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-072919	1924666-10	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-072919	1924666-10	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-072919	1924666-10	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-072919	1924666-10	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-072919	1924666-10	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-072919	1924666-10	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-6-072919	1924666-10	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-072919	1924666-10	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-6-072919	1924666-10	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-6-072919	1924666-10	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-072919	1924666-10	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-072919	1924666-10	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-6-072919	1924666-10	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-072919	1924666-10	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-072919	1924666-10	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
EB-6-072919	1924666-10	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-6-072919	1924666-10	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-6-072919	1924666-10	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-072919	1924666-10	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-6-072919	1924666-10	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-6-072919	1924666-10	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-6-072919	1924666-10	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
EB-6-072919	1924666-10	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
EB-6-072919	1924666-10	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-6-072919	1924666-10	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
EB-6-072919	1924666-10	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
EB-6-072919	1924666-10	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-6-072919	1924666-10	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
EB-6-072919	1924666-10	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
EB-6-072919	1924666-10	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
EB-6-072919	1924666-10	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-6-072919	1924666-10	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
EB-6-072919	1924666-10	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
EB-6-072919	1924666-10	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
EB-6-072919	1924666-10	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-6-072919	1924666-10	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-072919	1924666-10	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-6-072919	1924666-10	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
EB-6-072919	1924666-10	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-6-072919	1924666-10	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-072919	1924666-10	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
EB-6-072919	1924666-10	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-6-072919	1924666-10	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
EB-6-072919	1924666-10	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-072919	1924666-10	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-6-072919	1924666-10	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-6-072919	1924666-10	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
EB-6-072919	1924666-10	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
EB-6-072919	1924666-10	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
EB-6-072919	1924666-10	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-6-072919	1924666-10	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
EB-6-072919	1924666-10	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-6-072919	1924666-10	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
EB-6-072919	1924666-10	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
EB-6-072919	1924666-10	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
EB-6-072919	1924666-10	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-1	1924666-09	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-1	1924666-09	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-1	1924666-09	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-1	1924666-09	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-1	1924666-09	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-1	1924666-09	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-1	1924666-09	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-1	1924666-09	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-1	1924666-09	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-1	1924666-09	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-1	1924666-09	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-1	1924666-09	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-1	1924666-09	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-1	1924666-09	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-1	1924666-09	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-1	1924666-09	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-1	1924666-09	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-1	1924666-09	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-1	1924666-09	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-1	1924666-09	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-1	1924666-09	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-1	1924666-09	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-1	1924666-09	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-1	1924666-09	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-1	1924666-09	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-1	1924666-09	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-1	1924666-09	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-1	1924666-09	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-1	1924666-09	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-1	1924666-09	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-1	1924666-09	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-1	1924666-09	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-1	1924666-09	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-1	1924666-09	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-1	1924666-09	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-1	1924666-09	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-1	1924666-09	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-1	1924666-09	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-1	1924666-09	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-1	1924666-09	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-12-1	1924666-09	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-1	1924666-09	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-12-1	1924666-09	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-1	1924666-09	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-1	1924666-09	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-12-1	1924666-09	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-12-1	1924666-09	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-1	1924666-09	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-12-1	1924666-09	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-12-1	1924666-09	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-12-1	1924666-09	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-12-1	1924666-09	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-12-1	1924666-09	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-1	1924666-09	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-1	1924666-09	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-12-1	1924666-09	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-1	1924666-09	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-1	1924666-09	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-1	1924666-09	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-12-1	1924666-09	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-12-1	1924666-09	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-1	1924666-09	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-1	1924666-09	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-12-1	1924666-09	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-1	1924666-09	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-1	1924666-09	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-1	1924666-09	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-12-1	1924666-09	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-1	1924666-09	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-1	1924666-09	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-1	1924666-09	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-1	1924666-09	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-1	1924666-09	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-2	1924666-08	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1924666-08	Ethylbenzene	7/31/2019	0.22	Y	y	v j		0.50	0.15	ug/L
MW-12-2	1924666-08	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1924666-08	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1924666-08	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1924666-08	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1924666-08	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1924666-08	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1924666-08	Methyl t-butyl ether	7/31/2019	0.51	Y	y	v		0.50	0.14	ug/L
MW-12-2	1924666-08	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-2	1924666-08	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-2	1924666-08	Styrene	7/31/2019	1.8	Y	y	v		0.50	0.12	ug/L
MW-12-2	1924666-08	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1924666-08	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1924666-08	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1924666-08	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1924666-08	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1924666-08	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1924666-08	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1924666-08	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1924666-08	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-2	1924666-08	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1924666-08	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-2	1924666-08	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-12-2	1924666-08	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1924666-08	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-2	1924666-08	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1924666-08	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L

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Analytical 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	1924666-08	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-2	1924666-08	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-2	1924666-08	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-2	1924666-08	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-2	1924666-08	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	Benzene	7/31/2019	0.23	Y	y	v j		0.50	0.11	ug/L
MW-12-2	1924666-08	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-2	1924666-08	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-2	1924666-08	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-2	1924666-08	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-12-2	1924666-08	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-12-2	1924666-08	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-2	1924666-08	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-12-2	1924666-08	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-2	1924666-08	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-12-2	1924666-08	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-12-2	1924666-08	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-2	1924666-08	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-2	1924666-08	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-12-2	1924666-08	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-2	1924666-08	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-12-2	1924666-08	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-12-2	1924666-08	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-12-2	1924666-08	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-12-2	1924666-08	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-12-2	1924666-08	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-2	1924666-08	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1924666-08	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-2	1924666-08	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-2	1924666-08	Vinyl chloride	7/31/2019	0.42	Y	y	v j		0.50	0.18	ug/L
MW-12-2	1924666-08	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-2	1924666-08	Acrylonitrile	7/31/2019	16	Y	y	v		5.0	1.5	ug/L
MW-12-2	1924666-08	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-2	1924666-08	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-2	1924666-08	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-2	1924666-08	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-2	1924666-08	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-2	1924666-08	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-2	1924666-08	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-2	1924666-08	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-2	1924666-08	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-12-3	1924666-07	Trichloroethene	7/31/2019	0.31	Y	y	v j		0.50	0.19	ug/L
MW-12-3	1924666-07	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1924666-07	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1924666-07	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1924666-07	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1924666-07	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1924666-07	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-3	1924666-07	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1924666-07	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1924666-07	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1924666-07	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-12-3	1924666-07	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-3	1924666-07	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-3	1924666-07	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-12-3	1924666-07	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-3	1924666-07	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1924666-07	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1924666-07	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1924666-07	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1924666-07	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1924666-07	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1924666-07	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-3	1924666-07	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1924666-07	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-3	1924666-07	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-3	1924666-07	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1924666-07	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1924666-07	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1924666-07	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-3	1924666-07	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1924666-07	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1924666-07	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1924666-07	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1924666-07	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1924666-07	Carbon tetrachloride	7/31/2019	2.2	Y	y	v		0.50	0.17	ug/L
MW-12-3	1924666-07	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-3	1924666-07	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1924666-07	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-3	1924666-07	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-3	1924666-07	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-3	1924666-07	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-3	1924666-07	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1924666-07	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1924666-07	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-3	1924666-07	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-3	1924666-07	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-3	1924666-07	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1924666-07	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1924666-07	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-3	1924666-07	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-3	1924666-07	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-3	1924666-07	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-3	1924666-07	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1924666-07	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-3	1924666-07	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-3	1924666-07	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-3	1924666-07	Chloroform	7/31/2019	0.94	Y	y	v		0.50	0.14	ug/L
MW-12-3	1924666-07	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-3	1924666-07	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-12-3	1924666-07	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-12-3	1924666-07	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-12-3	1924666-07	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-12-3	1924666-07	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-3	1924666-07	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-3	1924666-07	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-12-3	1924666-07	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-3	1924666-07	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-12-3	1924666-07	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-12-3	1924666-07	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-12-3	1924666-07	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-3	1924666-07	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-3	1924666-07	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-12-3	1924666-07	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-12-3	1924666-07	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-12-4	1924666-06	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-12-4	1924666-06	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-4	1924666-06	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-12-4	1924666-06	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1924666-06	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-12-4	1924666-06	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-12-4	1924666-06	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-12-4	1924666-06	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-4	1924666-06	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-4	1924666-06	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-4	1924666-06	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-12-4	1924666-06	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-4	1924666-06	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1924666-06	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1924666-06	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-4	1924666-06	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1924666-06	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-4	1924666-06	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1924666-06	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1924666-06	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	Carbon tetrachloride	7/31/2019	0.41	Y	y	v j		0.50	0.17	ug/L
MW-12-4	1924666-06	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1924666-06	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-4	1924666-06	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-4	1924666-06	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1924666-06	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1924666-06	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1924666-06	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-4	1924666-06	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1924666-06	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-12-4	1924666-06	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1924666-06	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-4	1924666-06	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1924666-06	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	Chloroform	7/31/2019	0.41	Y	y	v j		0.50	0.14	ug/L
MW-12-4	1924666-06	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-4	1924666-06	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1924666-06	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1924666-06	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-4	1924666-06	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-4	1924666-06	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-4	1924666-06	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-12-4	1924666-06	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1924666-06	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-4	1924666-06	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1924666-06	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1924666-06	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1924666-06	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-4	1924666-06	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-4	1924666-06	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-4	1924666-06	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1924666-06	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-12-4	1924666-06	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-4	1924666-06	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-4	1924666-06	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-4	1924666-06	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-4	1924666-06	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-4	1924666-06	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-4	1924666-06	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-4	1924666-06	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1924666-06	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-4	1924666-06	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1924666-06	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1924666-06	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-4	1924666-06	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1924666-06	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-4	1924666-06	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1924666-06	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-4	1924666-06	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-4	1924666-06	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-4	1924666-06	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-12-4	1924666-06	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-12-4	1924666-06	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-12-4	1924666-06	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-12-4	1924666-06	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-12-5	1924666-05	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-12-5	1924666-05	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1924666-05	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1924666-05	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-5	1924666-05	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1924666-05	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-12-5	1924666-05	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1924666-05	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
MW-12-5	1924666-05	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1924666-05	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1924666-05	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-12-5	1924666-05	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-12-5	1924666-05	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1924666-05	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1924666-05	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1924666-05	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1924666-05	Styrene	7/31/2019	0.15	Y	y	v j		0.50	0.12	ug/L
MW-12-5	1924666-05	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1924666-05	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-12-5	1924666-05	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-12-5	1924666-05	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1924666-05	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-12-5	1924666-05	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-12-5	1924666-05	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-12-5	1924666-05	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-12-5	1924666-05	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-12-5	1924666-05	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-12-5	1924666-05	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-5	1924666-05	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-12-5	1924666-05	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1924666-05	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-12-5	1924666-05	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1924666-05	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-12-5	1924666-05	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-12-5	1924666-05	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-12-5	1924666-05	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-12-5	1924666-05	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-12-5	1924666-05	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-12-5	1924666-05	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1924666-05	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-12-5	1924666-05	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1924666-05	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-12-5	1924666-05	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1924666-05	Chloroform	7/31/2019	0.34	Y	y	v j		0.50	0.14	ug/L
MW-12-5	1924666-05	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1924666-05	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	Carbon tetrachloride	7/31/2019	0.28	Y	y	v j		0.50	0.17	ug/L
MW-12-5	1924666-05	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1924666-05	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1924666-05	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-5	1924666-05	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-12-5	1924666-05	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1924666-05	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1924666-05	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-12-5	1924666-05	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1924666-05	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-12-5	1924666-05	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-12-5	1924666-05	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1924666-05	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-12-5	1924666-05	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-12-5	1924666-05	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-12-5	1924666-05	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-12-5	1924666-05	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-12-5	1924666-05	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1924666-05	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-12-5	1924666-05	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-12-5	1924666-05	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-12-5	1924666-05	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-12-5	1924666-05	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-12-5	1924666-05	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-12-5	1924666-05	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-12-5	1924666-05	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-12-5	1924666-05	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-12-5	1924666-05	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-12-5	1924666-05	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-4-1	1924666-04	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-1	1924666-04	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-1	1924666-04	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-4-1	1924666-04	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1924666-04	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1924666-04	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-1	1924666-04	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1924666-04	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1924666-04	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-4-1	1924666-04	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1924666-04	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1924666-04	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-1	1924666-04	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1924666-04	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1924666-04	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-4-1	1924666-04	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-4-1	1924666-04	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-4-1	1924666-04	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1924666-04	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-1	1924666-04	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-4-1	1924666-04	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-4-1	1924666-04	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-1	1924666-04	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-1	1924666-04	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-4-1	1924666-04	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-1	1924666-04	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1924666-04	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-4-1	1924666-04	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-4-1	1924666-04	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1924666-04	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-1	1924666-04	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-1	1924666-04	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-1	1924666-04	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1924666-04	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-1	1924666-04	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-4-1	1924666-04	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1924666-04	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-1	1924666-04	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-1	1924666-04	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-1	1924666-04	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-1	1924666-04	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1924666-04	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1924666-04	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-1	1924666-04	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1924666-04	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1924666-04	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-1	1924666-04	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-1	1924666-04	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1924666-04	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-1	1924666-04	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1924666-04	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-4-1	1924666-04	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-1	1924666-04	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-1	1924666-04	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-1	1924666-04	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-1	1924666-04	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-1	1924666-04	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-1	1924666-04	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1924666-04	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-1	1924666-04	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-1	1924666-04	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-1	1924666-04	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-1	1924666-04	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-1	1924666-04	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-4-1	1924666-04	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-4-1	1924666-04	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-4-2	1924666-03	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1924666-03	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-4-2	1924666-03	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1924666-03	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-2	1924666-03	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-2	1924666-03	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	Trichloroethene	7/31/2019	1.2	Y	y	v		0.50	0.19	ug/L
MW-4-2	1924666-03	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1924666-03	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1924666-03	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	Tetrachloroethene	7/31/2019	0.46	Y	y	v j		0.50	0.23	ug/L
MW-4-2	1924666-03	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1924666-03	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1924666-03	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-4-2	1924666-03	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1924666-03	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1924666-03	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-4-2	1924666-03	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-4-2	1924666-03	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1924666-03	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-4-2	1924666-03	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-4-2	1924666-03	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-4-2	1924666-03	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-4-2	1924666-03	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-2	1924666-03	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-2	1924666-03	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-4-2	1924666-03	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-2	1924666-03	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-4-2	1924666-03	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-2	1924666-03	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-4-2	1924666-03	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1924666-03	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-2	1924666-03	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-2	1924666-03	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-2	1924666-03	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-4-2	1924666-03	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-2	1924666-03	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-4-2	1924666-03	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-4-2	1924666-03	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-2	1924666-03	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1924666-03	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-2	1924666-03	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-2	1924666-03	Chloroform	7/31/2019	0.75	Y	y	v		0.50	0.14	ug/L
MW-4-2	1924666-03	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1924666-03	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-2	1924666-03	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-2	1924666-03	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-2	1924666-03	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1924666-03	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1924666-03	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-2	1924666-03	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1924666-03	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-4-2	1924666-03	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1924666-03	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-2	1924666-03	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1924666-03	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-2	1924666-03	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-2	1924666-03	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-2	1924666-03	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-2	1924666-03	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-2	1924666-03	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1924666-03	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-2	1924666-03	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-2	1924666-03	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-2	1924666-03	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-2	1924666-03	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-2	1924666-03	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1924666-03	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-2	1924666-03	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-2	1924666-03	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
MW-4-3	1924666-02	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
MW-4-3	1924666-02	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1924666-02	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
MW-4-3	1924666-02	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
MW-4-3	1924666-02	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
MW-4-3	1924666-02	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1924666-02	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1924666-02	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
MW-4-3	1924666-02	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	Trichloroethene	7/31/2019	1.2	Y	y	v		0.50	0.19	ug/L
MW-4-3	1924666-02	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1924666-02	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1924666-02	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1924666-02	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	Tetrachloroethene	7/31/2019	0.45	Y	y	v j		0.50	0.23	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-3	1924666-02	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
MW-4-3	1924666-02	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
MW-4-3	1924666-02	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1924666-02	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-4-3	1924666-02	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
MW-4-3	1924666-02	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
MW-4-3	1924666-02	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-4-3	1924666-02	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
MW-4-3	1924666-02	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
MW-4-3	1924666-02	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-4-3	1924666-02	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
MW-4-3	1924666-02	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
MW-4-3	1924666-02	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
MW-4-3	1924666-02	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1924666-02	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-4-3	1924666-02	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
MW-4-3	1924666-02	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
MW-4-3	1924666-02	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-3	1924666-02	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1924666-02	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
MW-4-3	1924666-02	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-4-3	1924666-02	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-4-3	1924666-02	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1924666-02	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1924666-02	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1924666-02	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1924666-02	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1924666-02	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1924666-02	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-4-3	1924666-02	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1924666-02	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1924666-02	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-4-3	1924666-02	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-4-3	1924666-02	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1924666-02	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-4-3	1924666-02	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-4-3	1924666-02	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-4-3	1924666-02	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1924666-02	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-4-3	1924666-02	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-4-3	1924666-02	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-4-3	1924666-02	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-4-3	1924666-02	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1924666-02	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-4-3	1924666-02	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-4-3	1924666-02	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-4-3	1924666-02	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-4-3	1924666-02	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-072919	1924666-11	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
SB-2-072919	1924666-11	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-072919	1924666-11	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-072919	1924666-11	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-072919	1924666-11	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-072919	1924666-11	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
SB-2-072919	1924666-11	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-072919	1924666-11	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-072919	1924666-11	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-072919	1924666-11	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-072919	1924666-11	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
SB-2-072919	1924666-11	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
SB-2-072919	1924666-11	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
SB-2-072919	1924666-11	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
SB-2-072919	1924666-11	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
SB-2-072919	1924666-11	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-072919	1924666-11	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
SB-2-072919	1924666-11	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
SB-2-072919	1924666-11	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-072919	1924666-11	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-2-072919	1924666-11	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-072919	1924666-11	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-072919	1924666-11	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-072919	1924666-11	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-2-072919	1924666-11	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-072919	1924666-11	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-2-072919	1924666-11	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-072919	1924666-11	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-072919	1924666-11	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-072919	1924666-11	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-072919	1924666-11	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
SB-2-072919	1924666-11	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
SB-2-072919	1924666-11	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
SB-2-072919	1924666-11	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-2-072919	1924666-11	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-072919	1924666-11	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-072919	1924666-11	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
SB-2-072919	1924666-11	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-072919	1924666-11	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-072919	1924666-11	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-072919	1924666-11	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-2-072919	1924666-11	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-072919	1924666-11	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
SB-2-072919	1924666-11	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-2-072919	1924666-11	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1924666

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-2-072919	1924666-11	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-072919	1924666-11	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-2-072919	1924666-11	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
SB-2-072919	1924666-11	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-2-072919	1924666-11	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-2-072919	1924666-11	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
SB-2-072919	1924666-11	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-2-072919	1924666-11	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-2-072919	1924666-11	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
SB-2-072919	1924666-11	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
SB-2-072919	1924666-11	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
SB-2-072919	1924666-11	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
SB-2-072919	1924666-11	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
SB-2-072919	1924666-11	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
SB-2-072919	1924666-11	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
SB-2-072919	1924666-11	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-2-072919	1924666-11	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
SB-2-072919	1924666-11	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
SB-2-072919	1924666-11	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
SB-2-072919	1924666-11	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
SB-2-072919	1924666-11	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L
SB-2-072919	1924666-11	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L

SDG: 1924666

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-2-072919	1924666-11	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
SB-2-072919	1924666-11	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
SB-2-072919	1924666-11	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
SB-2-072919	1924666-11	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
SB-2-072919	1924666-11	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-072919	1924666-01	1,3-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-072919	1924666-01	1,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	trans-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-072919	1924666-01	cis-1,2-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-072919	1924666-01	1,1-Dichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-072919	1924666-01	1,2-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-072919	1924666-01	Dichlorodifluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	1,4-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	1,1-Dichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	2,2-Dichloropropane	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-072919	1924666-01	1,1-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-072919	1924666-01	cis-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	trans-1,3-Dichloropropene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-072919	1924666-01	Ethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	Hexachlorobutadiene	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-072919	1924666-01	Isopropylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	p-Isopropyltoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	Methyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	Chloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-072919	1924666-01	Naphthalene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L

SDG: 1924666

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-6-072919	1924666-01	Methylene chloride	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-072919	1924666-01	Chlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	Bromobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	trans-1,4-Dichloro-2-butene	7/31/2019	5	Y	n	u	UJ	5.0	1.8	ug/L
TB-6-072919	1924666-01	n-Propylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-072919	1924666-01	Bromodichloromethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-072919	1924666-01	Bromoform	7/31/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-6-072919	1924666-01	Bromomethane	7/31/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-6-072919	1924666-01	n-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	sec-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-072919	1924666-01	Chloromethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-072919	1924666-01	Carbon tetrachloride	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-072919	1924666-01	1,3-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-6-072919	1924666-01	Chloroform	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	Bromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-6-072919	1924666-01	2-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	4-Chlorotoluene	7/31/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-6-072919	1924666-01	Dibromochloromethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-072919	1924666-01	1,2-Dibromo-3-chloropropane	7/31/2019	1	Y	n	u		1.0	0.89	ug/L
TB-6-072919	1924666-01	1,2-Dibromoethane	7/31/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-6-072919	1924666-01	Dibromomethane	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-072919	1924666-01	1,2-Dichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-072919	1924666-01	tert-Butylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-072919	1924666-01	Propionitrile	7/31/2019	20	Y	n	u		20	6.2	ug/L
TB-6-072919	1924666-01	t-Butyl alcohol	7/31/2019	10	Y	n	u		10	9.4	ug/L

SDG: 1924666

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-6-072919	1924666-01	Ethyl t-butyl ether	7/31/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-6-072919	1924666-01	Hexachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-072919	1924666-01	2-Hexanone	7/31/2019	10	Y	n	u		10	5.0	ug/L
TB-6-072919	1924666-01	Methacrylonitrile	7/31/2019	10	Y	n	u		10	2.3	ug/L
TB-6-072919	1924666-01	Methyl ethyl ketone	7/31/2019	10	Y	n	u		10	3.3	ug/L
TB-6-072919	1924666-01	Methyl iodide	7/31/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-6-072919	1924666-01	Methyl isobutyl ketone	7/31/2019	10	Y	n	u		10	2.4	ug/L
TB-6-072919	1924666-01	Diethyl ether	7/31/2019	2	Y	n	u		2.0	0.33	ug/L
TB-6-072919	1924666-01	Pentachloroethane	7/31/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-6-072919	1924666-01	Carbon disulfide	7/31/2019	1	Y	n	u		1.0	0.48	ug/L
TB-6-072919	1924666-01	Tetrahydrofuran	7/31/2019	20	Y	n	u		20	5.2	ug/L
TB-6-072919	1924666-01	p- & m-Xylenes	7/31/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-6-072919	1924666-01	o-Xylene	7/31/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-6-072919	1924666-01	Chloroacetonitrile	7/31/2019	0	Y	y	v				ug/L
TB-6-072919	1924666-01	1-Chlorobutane	7/31/2019	0	Y	y	v				ug/L
TB-6-072919	1924666-01	1,1-Dichloropropanone	7/31/2019	0	Y	y	v				ug/L
TB-6-072919	1924666-01	Methyl acrylate	7/31/2019	0	Y	y	v				ug/L
TB-6-072919	1924666-01	Nitrobenzene	7/31/2019	0	Y	y	v				ug/L
TB-6-072919	1924666-01	Benzene	7/31/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-6-072919	1924666-01	Methyl methacrylate	7/31/2019	5	Y	n	u		5.0	1.2	ug/L
TB-6-072919	1924666-01	1,2,3-Trichloropropane	7/31/2019	1	Y	n	u		1.0	0.78	ug/L
TB-6-072919	1924666-01	1,1,1,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-072919	1924666-01	1,1,2,2-Tetrachloroethane	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-072919	1924666-01	Tetrachloroethene	7/31/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-6-072919	1924666-01	Toluene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1924666

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-6-072919	1924666-01	1,2,3-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-072919	1924666-01	1,2,4-Trichlorobenzene	7/31/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-6-072919	1924666-01	1,1,1-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-072919	1924666-01	1,1,2-Trichloroethane	7/31/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-6-072919	1924666-01	Ethyl methacrylate	7/31/2019	4	Y	n	u		4.0	1.3	ug/L
TB-6-072919	1924666-01	Trichlorofluoromethane	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	Styrene	7/31/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-6-072919	1924666-01	1,1,2-Trichloro-1,2,2-trifluoroethane	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-072919	1924666-01	1,2,4-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-6-072919	1924666-01	1,3,5-Trimethylbenzene	7/31/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-6-072919	1924666-01	Vinyl chloride	7/31/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-6-072919	1924666-01	Acetone	7/31/2019	10	Y	n	u		10	6.6	ug/L
TB-6-072919	1924666-01	Acrylonitrile	7/31/2019	5	Y	n	u		5.0	1.5	ug/L
TB-6-072919	1924666-01	Allyl chloride	7/31/2019	5	Y	n	u		5.0	0.47	ug/L
TB-6-072919	1924666-01	t-Amyl Methyl ether	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-6-072919	1924666-01	2-Nitropropane	7/31/2019	0	Y	y	v				ug/L
TB-6-072919	1924666-01	Trichloroethene	7/31/2019	0.5	Y	n	u		0.50	0.19	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 17, 2019

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924789

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-7-073019	1924789-01	Water	07/30/19
MW-21-5	1924789-02	Water	07/30/19
MW-21-4**	1924789-03**	Water	07/30/19
MW-21-3**	1924789-04**	Water	07/30/19
DUP-5-3Q19	1924789-05	Water	07/30/19
MW-21-2	1924789-06	Water	07/30/19
DUP-6-3Q19	1924789-07	Water	07/30/19
EB-7-073019	1924789-08	Water	07/30/19
MW-21-1	1924789-09	Water	07/30/19

**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
08/01/19	Methyl iodide Pentachloroethane	41.7 53.7	All samples in SDG 1924789	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-7-073019 was identified as a trip blank. No contaminants were found.

Sample EB-7-073019 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-21-3** and DUP-5-3Q19 and samples MW-21-2 and DUP-6-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	MW-21-3**	DUP-5-3Q19	
Chloroform	0.44	0.61	32
1,1-Dichloroethane	0.147	0.25	38
Methyl-tert-butyl ether	0.39	0.15	89
Styrene	0.32	0.12U	Not calculable
Tetrachloroethene	1.0	1.8	57
Trichloroethene	1.3	1.9	37

Compound	Concentration (ug/L)		RPD
	MW-21-2	DUP-6-3Q19	
Chloroform	0.28	0.45	47
Methyl-tert-butyl ether	0.16	0.14	13
Tetrachloroethene	0.85	1.6	61
Trichloroethene	0.19U	0.31	Not calculable

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, 3Q2019
Volatiles - Data Qualification Summary - SDG 1924789

Sample	Compound	Flag	A or P	Reason
TB-7-073019 MW-21-5 MW-21-4** MW-21-3** DUP-5-3Q19 MW-21-2 DUP-6-3Q19 EB-7-073019 MW-21-1	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924789

No Sample Data Qualified in this SDG

LDC #: 45845B1a

VALIDATION COMPLETENESS WORKSHEET

Date: 09/16/19

SDG #: 1924789

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	ICAL = 20% r ² ICV ≤ 30%
IV.	Continuing calibration	SW	CV = 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 8
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	1924989-02
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 4/5, 6/7
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation
XIII.	Target compound identification	A	Not reviewed for Level III validation
XIV.	System performance	A	Not reviewed for Level III validation
XV.	Overall assessment of data	A	

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

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	TB-7-073019	1924789-01	Water	07/30/19
2	MW-21-5	1924789-02	Water	07/30/19
3	MW-21-4**	1924789-03**	Water	07/30/19
4	MW-21-3** D ₁	1924789-04**	Water	07/30/19
5	DUP-5-3Q19 D ₁	1924789-05	Water	07/30/19
6	MW-21-2 D ₂	1924789-06	Water	07/30/19
7	DUP-6-3Q19 D ₂	1924789-07	Water	07/30/19
8	EB-7-073019	1924789-08	Water	07/30/19
9	MW-21-1	1924789-09	Water	07/30/19
10				

Notes:

-	B052527-BLK1			
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LDC #: 45845 B1a

VALIDATION FINDINGS CHECKLIST

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

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial calibration verification				
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Were field blanks identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were target compounds detected in the field blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in 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 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"/>	

LDC #: 45845 B1a

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: AVG
 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 + 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. 1,1,1,2-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.

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
	4	5	
K	0.44	0.61	32
I	0.17	0.25	38
LL	0.39	0.15	89
FF	0.32	0.12U	NC
AA	1.0	1.8	57
S	1.3	1.9	37

Compound	Concentration (ug/L)		RPD
	6	7	
K	0.28	0.45	47
LL	0.16	0.14	13
AA	0.85	1.6	61
S	0.19U	0.31	NC

LDC #: 45845B1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
 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	07/29/19	Chloroform (PFB)	0.948037	0.948037	0.905241	0.905241	11.696	11.696
			Trichloroethene (CBZ)	0.336400	0.336400	0.337130	0.337130	13.209	13.209
			1,1,2,2-TCA (DFB)	0.519576	0.519576	0.525552	0.525552	11.826	11.826
2	ICAL MS V5	07/25/19	Carbon disulfide (PFB)	1.436964	1.436964	1.409816	1.409816	4.490	4.490
			Methyl methacrylate (CBZ)	0.081171	0.081171	0.082233	0.082233	5.983	5.983
			Pentachloroethane (DFB)	see r2 calc					

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS Volatiles (EPA Method 524.2)

Parameter: Pentachloroethane

Calibration Date	Instrument/Column	Compound	Standard	(Y) Response ratio	(X) Conc. Ratio	(X ²) Conc. Ratio
7/25/2019	MSV5	Pentachloroethane	1	0.00951	0.08000	0.00640
			2	0.06905	0.32000	0.1024
			3	0.07998	0.80000	0.6400
			4	0.26244	1.60000	2.5600
			5	0.43018	2.40000	5.7600
			6	0.79991	4.00000	16.0000

Regression Output	Calculated	Reported
Constant	c = -0.000486	-0.000486
R Squared	r ² = 0.9950565	0.9950565
X Coefficient(s)	m1 = 1.3428E-01	1.3428E-01
Std Err of Coef.	m2 = 1.66986E-02	1.6699E-02
Correlation Coefficient	0.997525	
Coefficient of Determination (r ²)	0.995057	

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	01AUG02 MS V5	08/01/19	Chloroform (PFB)	0.905241	0.906344	0.906344	0.1	0.1
			Trichloroethene (CBZ)	0.337130	0.321378	0.321378	4.7	4.7
			1,1,2,2-TCA (DFB)	0.525552	0.529028	0.529028	0.7	0.7
	01AUG03 MS V5	08/01/19	Carbon disulfide (PFB)	1.409816	1.365424	1.365424	3.1	3.1
			Methyl methacrylate (CBZ)	0.082233	0.077554	0.077554	5.7	5.7
			Pentachloroethane (DFB)	16.00	24.59	24.59	53.7	53.7

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # 3

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.93	99.3	99.3	0
Bromofluorobenzene	↓	9.69	96.9	96.9	↓
1,2-Dichlorobenzene-d4	↓	10.1	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					

LDC #: 45845 B1a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the 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: 1924989-02 MS/MSD

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
1,1-Dichloroethene	25.0	25.0	0	23.59	23.78	94.4	94.4	95.1	95.1	0.802	0.80
Trichloroethene				23.86	23.90	95.4	95.4	95.6	95.6	0.168	0.17
Benzene				23.70	24.09	94.8	94.8	96.4	96.4	1.63	1.63
Toluene				22.67	23.30	90.7	90.7	93.2	93.2	2.74	2.74
Chlorobenzene				23.94	24.71	95.8	95.8	98.8	98.2	3.17	3.17

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 #: 45845 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: B052527-BSI

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	25.6	NA	107	107				
Trichloroethene	↓	↓	24.7	↑	97.2	97.2				
Benzene	↓	↓	23.59	↑	94.4	94.4				
Toluene	↓	↓	23.31	↑	93.2	93.2				
Chlorobenzene	↓	↓	24.89	↓	99.6	99.6				

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.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924789

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-21-5	1924789-02	Water	07/30/19
MW-21-4**	1924789-03**	Water	07/30/19
MW-21-3**	1924789-04**	Water	07/30/19
DUP-5-3Q19	1924789-05	Water	07/30/19
MW-21-2	1924789-06	Water	07/30/19
DUP-6-3Q19	1924789-07	Water	07/30/19
EB-7-073019	1924789-08	Water	07/30/19
MW-21-1	1924789-09	Water	07/30/19
MW-21-5MS	1924789-02MS	Water	07/30/19
MW-21-5MSD	1924789-02MSD	Water	07/30/19
MW-21-5DUP	1924789-02DUP	Water	07/30/19

**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% with the following exceptions:

Date	Analyte	%RSD	Associated Samples	Flag	A or P
08/02/19	Chromium	5.1	All samples in SDG 1924789	J (all detects)	P

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-7-073019 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-7-073019	Chromium	1.20 ug/L

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution 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-21-3** and DUP-5-3Q19 and samples MW-21-2 and DUP-6-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-21-3**	DUP-5-3Q19	
Chromium	1.6	1.2	29

Analyte	Concentration (ug/L)		RPD
	MW-21-2	DUP-6-3Q19	
Chromium	1.4	1.0	33

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 ICPMS tune %RSD, data were qualified as estimated in eight samples.

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

NASA JPL, 3Q2019
Chromium - Data Qualification Summary - SDG 1924789

Sample	Analyte	Flag	A or P	Reason
MW-21-5 MW-21-4** MW-21-3** DUP-5-3Q19 MW-21-2 DUP-6-3Q19 EB-7-073019 MW-21-1	Chromium	J (all detects)	P	ICPMS tune (%RSD)

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924789

No Sample Data Qualified in this SDG

LDC #: 45845B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1924789

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	SW	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Laboratory Blanks	A	
VI.	Field Blanks	SW	EB=7
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	SW	(3, 4), (5, 6)
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-21-5	1924789-02	Water	07/30/19
2	MW-21-4**	1924789-03**	Water	07/30/19
3	MW-21-3**	1924789-04**	Water	07/30/19
4	DUP-5-3Q19	1924789-05	Water	07/30/19
5	MW-21-2	1924789-06	Water	07/30/19
6	DUP-6-3Q19	1924789-07	Water	07/30/19
7	EB-7-073019	1924789-08	Water	07/30/19
8	MW-21-1	1924789-09	Water	07/30/19
9	MW-21-5MS	1924789-02MS	Water	07/30/19
10	MW-21-5MSD	1924789-02MSD	Water	07/30/19
11	MW-21-5DUP	1924789-02DUP	Water	07/30/19
12				

Notes: _____

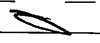
Method:Metals (EPA SW 846 Method 6010/6020/7000)

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#: 45845B4a

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	
	3	4		
Chromium	1.6	1.2	29	

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Analyte	Concentration (ug/L)		RPD	
	5	6		
Chromium	1.4	1.0	33	

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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

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

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

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated	Reported	Acceptable (Y/N)
					%R	%R	
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 8/2 @ 08:35	Cr	47.057	50.000	94.1	94.1	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVA	ICP/MS (Continuing calibration) 8/2 @ 14:58	Cr	41.000	40.000	102.5	102	Y
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	58.933	58.975	± 0.1 AMU	NA	Y
	%RSD	24.0	38947.8	≤ 5% RSD	5.1	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 8/2 e 14:34	Cr	42.459	40.000	106	106	Y
9	Matrix spike 8/2 e 14:48	Cr	(SSR-SR) 38.756	40.000	96.9	96.8	Y
9/10	Duplicate 8/2 e 14:51	Cr	42.201	40.556	3.98	3.98	Y
L	Post digestion spike 8/2 e 14:54	Cr	39.864	40.000	99.7	99.6	Y
L	ICP serial dilution 8/2 e 14:44	Cr	2.2	1.8	22	N.C.	Y

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924789

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-21-5	1924789-02	Water	07/30/19
MW-21-4**	1924789-03**	Water	07/30/19
MW-21-3**	1924789-04**	Water	07/30/19
DUP-5-3Q19	1924789-05	Water	07/30/19
MW-21-2	1924789-06	Water	07/30/19
DUP-6-3Q19	1924789-07	Water	07/30/19
EB-7-073019	1924789-08	Water	07/30/19
MW-21-1	1924789-09	Water	07/30/19

**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-7-073019 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-21-3** and DUP-5-3Q19 and samples MW-21-2 and DUP-6-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD
	MW-21-3**	DUP-5-3Q19	
Hexavalent chromium	0.000083 ug/L	0.00013 ug/L	44
Perchlorate	3.9 mg/L	3.3 mg/L	17

Analyte	Concentration		RPD
	MW-21-2	DUP-6-3Q19	
Hexavalent chromium	0.000076 ug/L	0.00024 ug/L	104
Perchlorate	2.9 mg/L	2.2 mg/L	27

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, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924789

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924789

No Sample Data Qualified in this SDG

LDC #: 45845B6
 SDG #: 1924789
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 9/12/19
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

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=7 (#1924666 (MW-4-3 MS/MSD))
VI.	Matrix Spike/Matrix Spike Duplicates	A	From SDG (#1924989 (MW-6 MS/MSD))
VII.	Duplicate sample analysis	A	↓ ↓
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(3,4), (5,6)
X.	Sample result verification	A	Not reviewed for Level III validation
XI	Overall assessment of data	A	

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

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-21-5	1924789-02	Water	07/30/19
2	MW-21-4**	1924789-03**	Water	07/30/19
3	MW-21-3**	1924789-04**	Water	07/30/19
4	DUP-5-3Q19	1924789-05	Water	07/30/19
5	MW-21-2	1924789-06	Water	07/30/19
6	DUP-6-3Q19	1924789-07	Water	07/30/19
7	EB-7-073019	1924789-08	Water	07/30/19
8	MW-21-1	1924789-09	Water	07/30/19
9				
10				
11				
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? <u>85-115%</u>	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\leq \text{CRDL} (\leq 2X \text{ CRDL for soil})$ was used for samples that were $\leq 5X$ the CRDL, including when only one of the duplicate sample values were $\leq 5X$ 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
Field Duplicates

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	3	4		
Hexavalent Chromium	0.000083	0.00013	44	
Perchlorate (ug/L)	3.9	3.3	17	

Analyte	Concentration (mg/L)		RPD	
	5	6		
Hexavalent Chromium	0.000076	0.00024	104	
Perchlorate (ug/L)	2.9	2.2	27	

LDC #: 45845 BG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄⁻ was recalculated. Calibration date: 08/12/19

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	3	0.0025	0.9997	0.9978	Y
		s2	4	0.0036			
		s3	6	0.0058			
		s4	10	0.0099			
		s5	20	0.0198			
CCV ₂ (8/13 @ 00:49) Calibration verification	ClO ₄ ⁻	FOUND 11.000	TRUE 10.000		110	112	Y
CCV ₁ (7/30 @ 21:08) Calibration verification	Cr6+	25.722	25.000		103	103	Y
CCV ₂ (7/31 @ 00:07) Calibration verification	Cr6+	24.715	25.000		99	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.

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 7/30 e 19:57	Cr6+	0.0185 mg/L	0.0200 mg/L	92.6	92.5	Y
MW-4-3 MS (From SDG # 1924666)	Matrix spike sample 8/12 e 20:43	ClO4 ⁻	(SSR-SR) 10.101 mg/L	10.101 mg/L	100	106	Y
MW-4-3 MS/MSD (From SDG # 1924666)	Duplicate sample 8/12 e 20:58	ClO4 ⁻	11.111 mg/L	10.703 mg/L	3.74	2.79	Y

Comments: _____

NASA JPL, 3Q2019 - LDC# 45845B

SDG: 1924789

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-5-3Q19	1924789-05	Total Recoverable Chromium	8/2/2019	1.2	Y	y	v j	J	3.0	0.50	ug/L
DUP-6-3Q19	1924789-07	Total Recoverable Chromium	8/2/2019	1	Y	y	v j	J	3.0	0.50	ug/L
EB-7-073019	1924789-08	Total Recoverable Chromium	8/2/2019	1.2	Y	y	v j	J	3.0	0.50	ug/L
MW-21-1	1924789-09	Total Recoverable Chromium	8/2/2019	2.3	Y	y	v j	J	3.0	0.50	ug/L
MW-21-2	1924789-06	Total Recoverable Chromium	8/2/2019	1.4	Y	y	v j	J	3.0	0.50	ug/L
MW-21-3	1924789-04	Total Recoverable Chromium	8/2/2019	1.6	Y	y	v j	J	3.0	0.50	ug/L
MW-21-4	1924789-03	Total Recoverable Chromium	8/2/2019	11	Y	y	v	J	3.0	0.50	ug/L
MW-21-5	1924789-02	Total Recoverable Chromium	8/2/2019	1.8	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-5-3Q19	1924789-05	Hexavalent Chromium	7/30/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
DUP-6-3Q19	1924789-07	Hexavalent Chromium	7/30/2019	#####	Y	y	v		0.0002	0.0000	mg/L
EB-7-073019	1924789-08	Hexavalent Chromium	7/30/2019	0.0002	Y	n	u		0.0002	0.0000	mg/L
MW-21-1	1924789-09	Hexavalent Chromium	7/30/2019	0.0013	Y	y	v		0.0002	0.0000	mg/L
MW-21-2	1924789-06	Hexavalent Chromium	7/30/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-21-3	1924789-04	Hexavalent Chromium	7/30/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-21-4	1924789-03	Hexavalent Chromium	7/30/2019	0.0013	Y	y	v		0.0002	0.0000	mg/L
MW-21-5	1924789-02	Hexavalent Chromium	7/30/2019	0.0002	Y	n	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-5-3Q19	1924789-05	Perchlorate	8/13/2019	3.3	Y	y	v j		4.0	0.76	ug/L
DUP-6-3Q19	1924789-07	Perchlorate	8/13/2019	2.2	Y	y	v j		4.0	0.76	ug/L
EB-7-073019	1924789-08	Perchlorate	8/13/2019	4	Y	n	u		4.0	0.76	ug/L

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Analytical Method		EPA-314.0									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-1	1924789-09	Perchlorate	8/13/2019	7.5	Y	y	v		4.0	0.76	ug/L
MW-21-2	1924789-06	Perchlorate	8/13/2019	2.9	Y	y	v j		4.0	0.76	ug/L
MW-21-3	1924789-04	Perchlorate	8/13/2019	3.9	Y	y	v j		4.0	0.76	ug/L
MW-21-4	1924789-03	Perchlorate	8/13/2019	3.5	Y	y	v j		4.0	0.76	ug/L
MW-21-5	1924789-02	Perchlorate	8/15/2019	2.8	Y	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
DUP-5-3Q19	1924789-05	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-5-3Q19	1924789-05	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-5-3Q19	1924789-05	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-5-3Q19	1924789-05	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
DUP-5-3Q19	1924789-05	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q19	1924789-05	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-5-3Q19	1924789-05	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-5-3Q19	1924789-05	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-3Q19	1924789-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q19	1924789-05	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-5-3Q19	1924789-05	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
DUP-5-3Q19	1924789-05	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-5-3Q19	1924789-05	Trichloroethene	8/1/2019	1.9	Y	y	v		0.50	0.19	ug/L
DUP-5-3Q19	1924789-05	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-5-3Q19	1924789-05	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
DUP-5-3Q19	1924789-05	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-3Q19	1924789-05	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
DUP-5-3Q19	1924789-05	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
DUP-5-3Q19	1924789-05	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
DUP-5-3Q19	1924789-05	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
DUP-5-3Q19	1924789-05	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
DUP-5-3Q19	1924789-05	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
DUP-5-3Q19	1924789-05	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q19	1924789-05	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-5-3Q19	1924789-05	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-3Q19	1924789-05	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-5-3Q19	1924789-05	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
DUP-5-3Q19	1924789-05	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-5-3Q19	1924789-05	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
DUP-5-3Q19	1924789-05	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
DUP-5-3Q19	1924789-05	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
DUP-5-3Q19	1924789-05	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
DUP-5-3Q19	1924789-05	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
DUP-5-3Q19	1924789-05	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-3Q19	1924789-05	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-5-3Q19	1924789-05	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q19	1924789-05	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-5-3Q19	1924789-05	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-5-3Q19	1924789-05	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-3Q19	1924789-05	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-5-3Q19	1924789-05	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-3Q19	1924789-05	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-3Q19	1924789-05	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q19	1924789-05	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	Tetrachloroethene	8/1/2019	1.8	Y	y	v		0.50	0.23	ug/L
DUP-5-3Q19	1924789-05	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q19	1924789-05	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-3Q19	1924789-05	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-5-3Q19	1924789-05	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-3Q19	1924789-05	Methyl t-butyl ether	8/1/2019	0.15	Y	y	v j		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q19	1924789-05	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q19	1924789-05	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q19	1924789-05	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-5-3Q19	1924789-05	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-5-3Q19	1924789-05	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-5-3Q19	1924789-05	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-5-3Q19	1924789-05	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-5-3Q19	1924789-05	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-5-3Q19	1924789-05	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-5-3Q19	1924789-05	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-5-3Q19	1924789-05	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-3Q19	1924789-05	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-5-3Q19	1924789-05	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-5-3Q19	1924789-05	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-5-3Q19	1924789-05	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-5-3Q19	1924789-05	Chloroform	8/1/2019	0.61	Y	y	v		0.50	0.14	ug/L
DUP-5-3Q19	1924789-05	1,1-Dichloroethane	8/1/2019	0.25	Y	y	v j		0.50	0.15	ug/L
DUP-5-3Q19	1924789-05	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-6-3Q19	1924789-07	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q19	1924789-07	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
DUP-6-3Q19	1924789-07	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
DUP-6-3Q19	1924789-07	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-3Q19	1924789-07	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-3Q19	1924789-07	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q19	1924789-07	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
DUP-6-3Q19	1924789-07	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	Trichloroethene	8/1/2019	0.31	Y	y	v j		0.50	0.19	ug/L
DUP-6-3Q19	1924789-07	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q19	1924789-07	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q19	1924789-07	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
DUP-6-3Q19	1924789-07	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	Tetrachloroethene	8/1/2019	1.6	Y	y	v		0.50	0.23	ug/L
DUP-6-3Q19	1924789-07	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q19	1924789-07	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-3Q19	1924789-07	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
DUP-6-3Q19	1924789-07	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-3Q19	1924789-07	Methyl t-butyl ether	8/1/2019	0.14	Y	y	v j		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q19	1924789-07	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q19	1924789-07	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
DUP-6-3Q19	1924789-07	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
DUP-6-3Q19	1924789-07	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
DUP-6-3Q19	1924789-07	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
DUP-6-3Q19	1924789-07	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
DUP-6-3Q19	1924789-07	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-3Q19	1924789-07	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
DUP-6-3Q19	1924789-07	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-3Q19	1924789-07	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
DUP-6-3Q19	1924789-07	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
DUP-6-3Q19	1924789-07	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
DUP-6-3Q19	1924789-07	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
DUP-6-3Q19	1924789-07	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
DUP-6-3Q19	1924789-07	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
DUP-6-3Q19	1924789-07	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
DUP-6-3Q19	1924789-07	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
DUP-6-3Q19	1924789-07	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
DUP-6-3Q19	1924789-07	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
DUP-6-3Q19	1924789-07	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q19	1924789-07	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
DUP-6-3Q19	1924789-07	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
DUP-6-3Q19	1924789-07	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
DUP-6-3Q19	1924789-07	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
DUP-6-3Q19	1924789-07	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-3Q19	1924789-07	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
DUP-6-3Q19	1924789-07	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q19	1924789-07	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-3Q19	1924789-07	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
DUP-6-3Q19	1924789-07	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	Chloroform	8/1/2019	0.45	Y	y	v j		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-3Q19	1924789-07	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
DUP-6-3Q19	1924789-07	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-3Q19	1924789-07	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-3Q19	1924789-07	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-3Q19	1924789-07	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
DUP-6-3Q19	1924789-07	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
DUP-6-3Q19	1924789-07	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
DUP-6-3Q19	1924789-07	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
DUP-6-3Q19	1924789-07	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
DUP-6-3Q19	1924789-07	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
DUP-6-3Q19	1924789-07	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
DUP-6-3Q19	1924789-07	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
DUP-6-3Q19	1924789-07	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q19	1924789-07	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
DUP-6-3Q19	1924789-07	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
DUP-6-3Q19	1924789-07	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
DUP-6-3Q19	1924789-07	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
DUP-6-3Q19	1924789-07	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
DUP-6-3Q19	1924789-07	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
DUP-6-3Q19	1924789-07	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
DUP-6-3Q19	1924789-07	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-073019	1924789-08	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
EB-7-073019	1924789-08	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
EB-7-073019	1924789-08	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
EB-7-073019	1924789-08	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
EB-7-073019	1924789-08	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
EB-7-073019	1924789-08	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
EB-7-073019	1924789-08	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
EB-7-073019	1924789-08	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-7-073019	1924789-08	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
EB-7-073019	1924789-08	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
EB-7-073019	1924789-08	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-073019	1924789-08	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
EB-7-073019	1924789-08	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-073019	1924789-08	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-073019	1924789-08	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-073019	1924789-08	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
EB-7-073019	1924789-08	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-073019	1924789-08	Tetrachloroethene	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-073019	1924789-08	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-073019	1924789-08	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-073019	1924789-08	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-7-073019	1924789-08	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-073019	1924789-08	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-073019	1924789-08	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-073019	1924789-08	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-073019	1924789-08	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
EB-7-073019	1924789-08	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
EB-7-073019	1924789-08	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
EB-7-073019	1924789-08	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
EB-7-073019	1924789-08	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-073019	1924789-08	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
EB-7-073019	1924789-08	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
EB-7-073019	1924789-08	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-073019	1924789-08	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
EB-7-073019	1924789-08	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
EB-7-073019	1924789-08	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
EB-7-073019	1924789-08	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-073019	1924789-08	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
EB-7-073019	1924789-08	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-073019	1924789-08	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-073019	1924789-08	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-073019	1924789-08	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
EB-7-073019	1924789-08	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-073019	1924789-08	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-073019	1924789-08	Chloroform	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-073019	1924789-08	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
EB-7-073019	1924789-08	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-073019	1924789-08	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-073019	1924789-08	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-7-073019	1924789-08	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-073019	1924789-08	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-073019	1924789-08	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
EB-7-073019	1924789-08	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-7-073019	1924789-08	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-073019	1924789-08	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-7-073019	1924789-08	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-7-073019	1924789-08	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-073019	1924789-08	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-7-073019	1924789-08	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-073019	1924789-08	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-073019	1924789-08	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-7-073019	1924789-08	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-7-073019	1924789-08	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-073019	1924789-08	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-7-073019	1924789-08	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-7-073019	1924789-08	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-7-073019	1924789-08	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-7-073019	1924789-08	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-7-073019	1924789-08	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-7-073019	1924789-08	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-7-073019	1924789-08	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-7-073019	1924789-08	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
EB-7-073019	1924789-08	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-1	1924789-09	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-1	1924789-09	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-1	1924789-09	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-1	1924789-09	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-1	1924789-09	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-1	1924789-09	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-1	1924789-09	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-1	1924789-09	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-1	1924789-09	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-1	1924789-09	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-21-1	1924789-09	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-1	1924789-09	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-1	1924789-09	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-1	1924789-09	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-1	1924789-09	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-1	1924789-09	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-1	1924789-09	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-1	1924789-09	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-1	1924789-09	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-1	1924789-09	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-1	1924789-09	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-1	1924789-09	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-1	1924789-09	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-1	1924789-09	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-21-1	1924789-09	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-21-1	1924789-09	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-21-1	1924789-09	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-21-1	1924789-09	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-1	1924789-09	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-1	1924789-09	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-1	1924789-09	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-1	1924789-09	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-1	1924789-09	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-21-1	1924789-09	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-1	1924789-09	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-21-1	1924789-09	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-21-1	1924789-09	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-1	1924789-09	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-21-1	1924789-09	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-1	1924789-09	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-1	1924789-09	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-1	1924789-09	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-1	1924789-09	Trichloroethene	8/1/2019	0.55	Y	y	v		0.50	0.19	ug/L
MW-21-1	1924789-09	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-1	1924789-09	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-1	1924789-09	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	Tetrachloroethene	8/1/2019	0.37	Y	y	v j		0.50	0.23	ug/L
MW-21-1	1924789-09	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-21-1	1924789-09	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-1	1924789-09	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-21-1	1924789-09	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-21-1	1924789-09	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-1	1924789-09	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-1	1924789-09	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-1	1924789-09	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-21-1	1924789-09	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-1	1924789-09	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-1	1924789-09	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-1	1924789-09	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-1	1924789-09	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-1	1924789-09	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-1	1924789-09	Chloroform	8/1/2019	1.4	Y	y	v		0.50	0.14	ug/L
MW-21-1	1924789-09	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-1	1924789-09	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-1	1924789-09	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-1	1924789-09	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-1	1924789-09	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-1	1924789-09	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1924789-06	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-2	1924789-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1924789-06	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-21-2	1924789-06	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-21-2	1924789-06	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-21-2	1924789-06	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-21-2	1924789-06	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-21-2	1924789-06	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1924789-06	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-21-2	1924789-06	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1924789-06	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-2	1924789-06	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
MW-21-2	1924789-06	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-2	1924789-06	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-21-2	1924789-06	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1924789-06	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-2	1924789-06	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-2	1924789-06	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1924789-06	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1924789-06	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-2	1924789-06	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1924789-06	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1924789-06	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-21-2	1924789-06	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-2	1924789-06	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-2	1924789-06	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1924789-06	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-21-2	1924789-06	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1924789-06	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-2	1924789-06	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-21-2	1924789-06	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-2	1924789-06	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-2	1924789-06	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1924789-06	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-21-2	1924789-06	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-21-2	1924789-06	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1924789-06	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-2	1924789-06	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1924789-06	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-2	1924789-06	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1924789-06	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-2	1924789-06	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-2	1924789-06	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-2	1924789-06	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-2	1924789-06	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1924789-06	Chloroform	8/1/2019	0.28	Y	y	v j		0.50	0.14	ug/L
MW-21-2	1924789-06	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1924789-06	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-2	1924789-06	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1924789-06	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1924789-06	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-2	1924789-06	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-21-2	1924789-06	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-2	1924789-06	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-2	1924789-06	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1924789-06	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1924789-06	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1924789-06	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1924789-06	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-2	1924789-06	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-2	1924789-06	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1924789-06	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1924789-06	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-2	1924789-06	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-2	1924789-06	Tetrachloroethene	8/1/2019	0.85	Y	y	v		0.50	0.23	ug/L
MW-21-2	1924789-06	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1924789-06	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-2	1924789-06	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-2	1924789-06	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1924789-06	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-2	1924789-06	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-2	1924789-06	Methyl t-butyl ether	8/1/2019	0.16	Y	y	v j		0.50	0.14	ug/L
MW-21-2	1924789-06	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-2	1924789-06	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-2	1924789-06	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1924789-04	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1924789-04	Trichloroethene	8/1/2019	1.3	Y	y	v		0.50	0.19	ug/L
MW-21-3	1924789-04	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1924789-04	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-3	1924789-04	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1924789-04	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	Tetrachloroethene	8/1/2019	1	Y	y	v		0.50	0.23	ug/L
MW-21-3	1924789-04	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-3	1924789-04	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1924789-04	Styrene	8/1/2019	0.32	Y	y	v j		0.50	0.12	ug/L
MW-21-3	1924789-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1924789-04	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1924789-04	Methyl t-butyl ether	8/1/2019	0.39	Y	y	v j		0.50	0.14	ug/L
MW-21-3	1924789-04	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-21-3	1924789-04	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1924789-04	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1924789-04	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-21-3	1924789-04	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1924789-04	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-3	1924789-04	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-3	1924789-04	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-3	1924789-04	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-3	1924789-04	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1924789-04	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-3	1924789-04	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-3	1924789-04	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-21-3	1924789-04	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1924789-04	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1924789-04	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-3	1924789-04	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-21-3	1924789-04	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1924789-04	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1924789-04	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-3	1924789-04	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1924789-04	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1924789-04	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1924789-04	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1924789-04	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-21-3	1924789-04	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-21-3	1924789-04	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-21-3	1924789-04	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-21-3	1924789-04	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1924789-04	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-3	1924789-04	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-21-3	1924789-04	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
MW-21-3	1924789-04	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-3	1924789-04	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-3	1924789-04	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-21-3	1924789-04	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1924789-04	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-21-3	1924789-04	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-21-3	1924789-04	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-21-3	1924789-04	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1924789-04	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-3	1924789-04	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1924789-04	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1924789-04	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-3	1924789-04	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-3	1924789-04	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1924789-04	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-3	1924789-04	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1924789-04	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-3	1924789-04	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-3	1924789-04	1,1-Dichloroethane	8/1/2019	0.17	Y	y	v j		0.50	0.15	ug/L
MW-21-3	1924789-04	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-3	1924789-04	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-3	1924789-04	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-3	1924789-04	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-3	1924789-04	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-3	1924789-04	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-3	1924789-04	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-3	1924789-04	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-3	1924789-04	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-3	1924789-04	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-3	1924789-04	Chloroform	8/1/2019	0.44	Y	y	v j		0.50	0.14	ug/L
MW-21-3	1924789-04	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-4	1924789-03	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-4	1924789-03	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-21-4	1924789-03	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-21-4	1924789-03	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-21-4	1924789-03	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-21-4	1924789-03	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1924789-03	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-4	1924789-03	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-4	1924789-03	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-4	1924789-03	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-4	1924789-03	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1924789-03	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-21-4	1924789-03	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1924789-03	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1924789-03	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-4	1924789-03	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1924789-03	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1924789-03	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-4	1924789-03	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-4	1924789-03	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1924789-03	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	cis-1,2-Dichloroethene	8/1/2019	0.35	Y	y	v j		0.50	0.27	ug/L
MW-21-4	1924789-03	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-4	1924789-03	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	1,1-Dichloroethane	8/1/2019	0.17	Y	y	v j		0.50	0.15	ug/L
MW-21-4	1924789-03	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1924789-03	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1924789-03	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1924789-03	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1924789-03	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-4	1924789-03	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1924789-03	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-4	1924789-03	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-4	1924789-03	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	Chloroform	8/1/2019	4.2	Y	y	v		0.50	0.14	ug/L
MW-21-4	1924789-03	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1924789-03	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1924789-03	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	Trichloroethene	8/1/2019	0.65	Y	y	v		0.50	0.19	ug/L
MW-21-4	1924789-03	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-4	1924789-03	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1924789-03	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1924789-03	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1924789-03	Tetrachloroethene	8/1/2019	2	Y	y	v		0.50	0.23	ug/L
MW-21-4	1924789-03	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1924789-03	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1924789-03	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1924789-03	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-4	1924789-03	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1924789-03	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-4	1924789-03	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-4	1924789-03	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1924789-03	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1924789-03	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1924789-03	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-4	1924789-03	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-4	1924789-03	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-21-4	1924789-03	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-21-4	1924789-03	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-21-4	1924789-03	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-4	1924789-03	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-21-4	1924789-03	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-4	1924789-03	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-4	1924789-03	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-4	1924789-03	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-21-4	1924789-03	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-21-4	1924789-03	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-4	1924789-03	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-21-4	1924789-03	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-21-4	1924789-03	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-21-4	1924789-03	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-4	1924789-03	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-4	1924789-03	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-4	1924789-03	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-4	1924789-03	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
MW-21-4	1924789-03	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-4	1924789-03	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-21-5	1924789-02	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1924789-02	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-21-5	1924789-02	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-21-5	1924789-02	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1924789-02	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-21-5	1924789-02	Benzene	8/1/2019	0.14	Y	y	v j		0.50	0.11	ug/L
MW-21-5	1924789-02	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1924789-02	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-5	1924789-02	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-21-5	1924789-02	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1924789-02	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1924789-02	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1924789-02	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1924789-02	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1924789-02	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1924789-02	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-21-5	1924789-02	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-21-5	1924789-02	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
MW-21-5	1924789-02	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-21-5	1924789-02	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-21-5	1924789-02	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-21-5	1924789-02	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-21-5	1924789-02	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-21-5	1924789-02	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-21-5	1924789-02	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-21-5	1924789-02	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
MW-21-5	1924789-02	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-21-5	1924789-02	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-21-5	1924789-02	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1924789-02	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1924789-02	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-21-5	1924789-02	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-5	1924789-02	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1924789-02	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1924789-02	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1924789-02	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1924789-02	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1924789-02	Tetrachloroethene	8/1/2019	0.66	Y	y	v		0.50	0.23	ug/L
MW-21-5	1924789-02	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1924789-02	Chloroform	8/1/2019	3	Y	y	v		0.50	0.14	ug/L
MW-21-5	1924789-02	Styrene	8/1/2019	1.5	Y	y	v		0.50	0.12	ug/L
MW-21-5	1924789-02	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1924789-02	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1924789-02	Methyl t-butyl ether	8/1/2019	1.7	Y	y	v		0.50	0.14	ug/L
MW-21-5	1924789-02	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1924789-02	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1924789-02	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-21-5	1924789-02	Ethylbenzene	8/1/2019	0.33	Y	y	v j		0.50	0.15	ug/L
MW-21-5	1924789-02	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1924789-02	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1924789-02	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-21-5	1924789-02	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-21-5	1924789-02	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1924789-02	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-5	1924789-02	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1924789-02	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-21-5	1924789-02	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1924789-02	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1924789-02	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-21-5	1924789-02	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-21-5	1924789-02	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-21-5	1924789-02	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-21-5	1924789-02	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1924789-02	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-21-5	1924789-02	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-21-5	1924789-02	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-21-5	1924789-02	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-21-5	1924789-02	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-21-5	1924789-02	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-21-5	1924789-02	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-21-5	1924789-02	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-21-5	1924789-02	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-21-5	1924789-02	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-21-5	1924789-02	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-21-5	1924789-02	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-21-5	1924789-02	Vinyl chloride	8/1/2019	0.38	Y	y	v j		0.50	0.18	ug/L
MW-21-5	1924789-02	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-21-5	1924789-02	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-21-5	1924789-02	Acrylonitrile	8/1/2019	7.3	Y	y	v		5.0	1.5	ug/L
MW-21-5	1924789-02	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-21-5	1924789-02	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-073019	1924789-01	Chloroform	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-073019	1924789-01	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-7-073019	1924789-01	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-073019	1924789-01	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-073019	1924789-01	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-073019	1924789-01	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-073019	1924789-01	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
TB-7-073019	1924789-01	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-073019	1924789-01	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-7-073019	1924789-01	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-073019	1924789-01	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-073019	1924789-01	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-073019	1924789-01	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-7-073019	1924789-01	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-073019	1924789-01	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-073019	1924789-01	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-7-073019	1924789-01	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-7-073019	1924789-01	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-073019	1924789-01	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
TB-7-073019	1924789-01	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
TB-7-073019	1924789-01	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
TB-7-073019	1924789-01	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
TB-7-073019	1924789-01	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
TB-7-073019	1924789-01	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
TB-7-073019	1924789-01	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-7-073019	1924789-01	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-073019	1924789-01	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
TB-7-073019	1924789-01	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
TB-7-073019	1924789-01	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
TB-7-073019	1924789-01	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-7-073019	1924789-01	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-073019	1924789-01	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
TB-7-073019	1924789-01	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
TB-7-073019	1924789-01	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
TB-7-073019	1924789-01	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
TB-7-073019	1924789-01	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
TB-7-073019	1924789-01	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
TB-7-073019	1924789-01	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
TB-7-073019	1924789-01	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
TB-7-073019	1924789-01	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-7-073019	1924789-01	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-073019	1924789-01	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-7-073019	1924789-01	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
TB-7-073019	1924789-01	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
TB-7-073019	1924789-01	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-7-073019	1924789-01	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
TB-7-073019	1924789-01	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
TB-7-073019	1924789-01	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
TB-7-073019	1924789-01	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-073019	1924789-01	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-073019	1924789-01	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-073019	1924789-01	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-7-073019	1924789-01	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-073019	1924789-01	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-073019	1924789-01	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-7-073019	1924789-01	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-073019	1924789-01	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1924789

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-7-073019	1924789-01	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-7-073019	1924789-01	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-073019	1924789-01	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-073019	1924789-01	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-073019	1924789-01	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-7-073019	1924789-01	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-7-073019	1924789-01	Tetrachloroethene	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-7-073019	1924789-01	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-7-073019	1924789-01	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-073019	1924789-01	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-073019	1924789-01	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-7-073019	1924789-01	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-7-073019	1924789-01	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-7-073019	1924789-01	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-7-073019	1924789-01	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L

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

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 17, 2019
Parameters: Volatiles
Validation Level: Level III & IV
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1924989

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-8-073119	1924989-01	Water	07/31/19
MW-13	1924989-02	Water	07/31/19
MW-5**	1924989-03**	Water	07/31/19
MW-6	1924989-04	Water	07/31/19
MW-13MS	1924989-02MS	Water	07/31/19
MW-13MSD	1924989-02MSD	Water	07/31/19
MW-6MS	1924989-04MS	Water	07/31/19
MW-6MSD	1924989-04MSD	Water	07/31/19

**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
08/01/19	Methyl iodide Pentachloroethane	41.7 53.7	All samples in SDG 1924989	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-8-073119 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 four samples.

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1924989

Sample	Compound	Flag	A or P	Reason
TB-8-073119 MW-13 MW-5** MW-6	Methyl iodide Pentachloroethane	UJ (all non-detects) UJ (all non-detects)	P	Continuing calibration (%D)

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1924989

No Sample Data Qualified in this SDG

LDC #: 45845C1a

VALIDATION COMPLETENESS WORKSHEET

Date: 09/17/19

SDG #: 1924989

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	ICAL ≤ 20% r ² ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 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	SW	
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-8-073119	1924989-01	Water	07/31/19
2	MW-13	1924989-02	Water	07/31/19
3	MW-5**	1924989-03**	Water	07/31/19
4	MW-6	1924989-04	Water	07/31/19
5	MW-13MS	1924989-02MS	Water	07/31/19
6	MW-13MSD	1924989-02MSD	Water	07/31/19
7	MW-6MS	1924989-04MS	Water	07/31/19
8	MW-6MSD	1924989-04MSD	Water	07/31/19
9				

Notes:

1	B052527- Blk 1				
2	B052529- ↓				

LDC #: 45845C1a

VALIDATION FINDINGS CHECKLIST

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

Method: Volatiles (EPA Method 524.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Was a tune check performed prior to establishing and/or re-establishing an initial calibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform at least 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) \leq 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial calibration verification				
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) \leq 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 \leq 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Were field blanks identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were target compounds detected in the field blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in 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 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"/>	

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. 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 #: 45845C1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
 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	07/29/19	Chloroform (PFB)	0.948037	0.948037	0.905241	0.905241	11.696	11.696
			Trichloroethene (CBZ)	0.336400	0.336400	0.337130	0.337130	13.209	13.209
			1,1,2,2-TCA (DFB)	0.519576	0.519576	0.525552	0.525552	11.826	11.826
2	ICAL MS V5	07/25/19	Carbon disulfide (PFB)	1.436964	1.436964	1.409816	1.409816	4.490	4.490
			Methyl methacrylate (CBZ)	0.081171	0.081171	0.082233	0.082233	5.983	5.983
			Pentachloroethane (DFB)	see r2 calc					

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS Volatiles (EPA Method 524.2)

Parameter: Pentachloroethane

Calibration Date	Instrument/Column	Compound	Standard	(Y) Response ratio	(X) Conc. Ratio	(X ²) Conc. Ratio
7/25/2019	MSV5	Pentachloroethane	1	0.00951	0.08000	0.00640
			2	0.06905	0.32000	0.1024
			3	0.07998	0.80000	0.6400
			4	0.26244	1.60000	2.5600
			5	0.43018	2.40000	5.7600
			6	0.79991	4.00000	16.0000

Regression Output	Calculated	Reported
Constant	c = -0.000486	-0.000486
R Squared	r ² = 0.9950565	0.9950565
X Coefficient(s)	m1 = 1.3428E-01	1.3428E-01
Std Err of Coef.	m2 = 1.66986E-02	1.6699E-02
Correlation Coefficient	0.997525	
Coefficient of Determination (r ²)	0.995057	

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	01AUG02 MS V5	08/01/19	Chloroform (PFB)	0.905241	0.906344	0.906344	0.1	0.1
			Trichloroethene (CBZ)	0.337130	0.321378	0.321378	4.7	4.7
			1,1,2,2-TCA (DFB)	0.525552	0.529028	0.529028	0.7	0.7
	01AUG03 MS V5	08/01/19	Carbon disulfide (PFB)	1.409816	1.365424	1.365424	3.1	3.1
			Methyl methacrylate (CBZ)	0.082233	0.077554	0.077554	5.7	5.7
			Pentachloroethane (DFB)	16.00	24.59	24.59	53.7	53.7

LDC #: 45845C1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 3

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Toluene-d8	10.0	9.95	99.5	99.5	9
Bromofluorobenzene		9.79	97.9	97.9	
1,2-Dichlorobenzene-d4		10.08	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					

LDC #: 4584501a

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: 5/6

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	23.59	23.78	94.4	94.4	95.1	95.1	0.802	0.80
Trichloroethene	↓	↓	↓	23.86	23.90	95.4	95.4	95.6	95.6	0.168	0.17
Benzene	↓	↓	↓	23.70	24.09	94.8	94.8	96.4	96.4	1.63	1.63
Toluene	↓	↓	↓	22.67	23.30	90.7	90.7	93.2	93.2	2.74	2.74
Chlorobenzene	↓	↓	↓	23.94	24.7	95.8	95.8	98.8	98.8	3.17	3.17

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 #: 45845C1a

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: B052527 - B81

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	25.60	NA	102	102				
Trichloroethene			24.38		97.2	97.2				
Benzene			23.59		94.4	94.4				
Toluene			23.31		93.2	93.2				
Chlorobenzene			24.89		99.6	99.6				

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.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Chromium

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1924989

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-13	1924989-02	Water	07/31/19
MW-5**	1924989-03**	Water	07/31/19
MW-6	1924989-04	Water	07/31/19
MW-15	1924989-05	Water	07/31/19
Dup-7-3Q19	1924989-06	Water	07/31/19

**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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

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-15 and Dup-7-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	MW-15	Dup-7-3Q19	
Chromium	2.6	1.9	31

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, 3Q2019
Chromium - Data Qualification Summary - SDG 1924989

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1924989

No Sample Data Qualified in this SDG

LDC #: 45845C4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1924989

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	N	
VII.	Matrix Spike/Matrix Spike Duplicates	N	non-client sample used.
VIII.	Duplicate sample analysis	N	↓
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	ICS
XI.	Field Duplicates	SW	(4,5)
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-13	1924989-02	Water	07/31/19
2	MW-5**	1924989-03**	Water	07/31/19
3	MW-6	1924989-04	Water	07/31/19
4	MW-15	1924989-05	Water	07/31/19
5	Dup-7-3Q19	1924989-06	Water	07/31/19
6				
7				
8				
9				
10				
11				
12				

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#: 4584-5C4a

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	
	4	5		
Chromium	2.6	1.9	31	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\45845C4a.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) 8/7 @ 07:41	Cr	52.549	50.000	105	105	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCVc	ICP/MS (Continuing calibration) 8/7 @ 20:28	Cr	38.499	40.000	96.2	96.2	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	23.975	± 0.1 AMU	NA	Y
	%RSD	114.9	247206.5	≤ 5% RSD	0.7	Y

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	
	ICP interference check						
LCS	Laboratory control sample 8/7 @ 19:27	Cr	42.268 mg/L	40.000 mg/L	106	106	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 13, 2019
Parameters: Wet Chemistry
Validation Level: Level III & IV
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1924989

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-13	1924989-02	Water	07/31/19
MW-5**	1924989-03**	Water	07/31/19
MW-6	1924989-04	Water	07/31/19
MW-15	1924989-05	Water	07/31/19
Dup-7-3Q19	1924989-06	Water	07/31/19
MW-13MS	1924989-02MS	Water	07/31/19
MW-13MSD	1924989-02MSD	Water	07/31/19
MW-13DUP	1924989-02DUP	Water	07/31/19
MW-6MS	1924989-04MS	Water	07/31/19
MW-6MSD	1924989-04MSD	Water	07/31/19
MW-6DUP	1924989-04DUP	Water	07/31/19

**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

Hexavalent Chromium by EPA Method 218.6

Nitrite as Nitrogen by EPA Method 353.2

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

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

Samples MW-15 and Dup-7-3Q19 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	MW-15	Dup-7-3Q19	
Hexavalent chromium	0.00045	0.00046	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.

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

NASA JPL, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1924989

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1924989

No Sample Data Qualified in this SDG

LDC #: 45845C6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1924989

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *ATJ*

2nd Reviewer: *[Signature]*

METHOD: (Analyte) Chloride, Nitrate as N, Sulfate (EPA Method 300.0), Nitrate as N (EPA Method 353.2), ortho-Phosphate as 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	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	(6,7), (9,10)
VII.	Duplicate sample analysis	A	8, 11
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	(4,5)
X.	Sample result verification	A	Not reviewed for Level III validation
XI.	Overall assessment of data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

**Indicates samples underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	MW-13	1924989-02	Water	07/31/19
2	MW-5**	1924989-03**	Water	07/31/19
3	MW-6	1924989-04	Water	07/31/19
4	MW-15	1924989-05	Water	07/31/19
5	Dup-7-3Q19	1924989-06	Water	07/31/19
6	MW-13MS	1924989-02MS	Water	07/31/19
7	MW-13MSD	1924989-02MSD	Water	07/31/19
8	MW-13DUP	1924989-02DUP	Water	07/31/19
9	MW-6MS	1924989-04MS	Water	07/31/19
10	MW-6MSD	1924989-04MSD	Water	07/31/19
11	MW-6DUP	1924989-04DUP	Water	07/31/19
12				
13				
14				

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? <i>85-115%</i>	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?		✓		

VALIDATION FINDINGS CHECKLIST

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

LDC# 45845C6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

Inorganics: Method See Cover

Analyte	Concentration (mg/L)		RPD	
	4	5		
Hexavalent Chromium	0.00045	0.00046	2	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\45845C6.wpd

LDC #: 45845CG

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

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

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4⁻ was recalculated. Calibration date: 08/12/19

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	ClO4 ⁻	s1	3	0.0025	0.9997	0.9978	Y
		s2	4	0.0036			
		s3	6	0.0058			
		s4	10	0.0099			
		s5	20	0.0198			
CCV ₂ (8/15 @ 07:16) Calibration verification	ClO4 ⁻	FOUND 11.000	TRUE 10.000		110	110	Y
CCV ₁ (8/1 @ 12:28) Calibration verification	Cr6+	25.489	25.000		102	102	Y
CCV ₂ (8/1 @ 14:23) Calibration verification	Cr6+	26.190	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 #: 4584506

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: ALL
2nd Reviewer: 0

METHOD: Inorganics, Method See cover

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

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

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

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

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated	Reported	Acceptable (Y/N)
					%R / RPD	%R / RPD	
LCS	Laboratory control sample 8/15 e 02:24	ClO_4^-	11.000 mg/L	10.000 mg/L	110	112	Y
G	Matrix spike sample 8/11 e 12:18	Cr6+	(SSR-SR) 0.018962 mg/L	0.020202 mg/L	93.9	93.9	Y
G/7	Duplicate sample 8/11 e 12:47	Cr6+	0.022693 mg/L	0.022057 mg/L	2.84	2.84	Y

Comments: _____

NASA JPL, 3Q2019 - LDC# 45845C

SDG: 1924989

Analytical Method											
EPA-200.8											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
Dup-7-3Q19	1924989-06	Total Recoverable Chromium	8/7/2019	1.9	Y	y	v j		3.0	0.50	ug/L
MW-13	1924989-02	Total Recoverable Chromium	8/7/2019	8.5	Y	y	v		3.0	0.50	ug/L
MW-15	1924989-05	Total Recoverable Chromium	8/7/2019	2.6	Y	y	v j		3.0	0.50	ug/L
MW-5	1924989-03	Total Recoverable Chromium	8/7/2019	0.78	Y	y	v j		3.0	0.50	ug/L
MW-6	1924989-04	Total Recoverable Chromium	8/7/2019	9.9	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-7-3Q19	1924989-06	Hexavalent Chromium	8/1/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-13	1924989-02	Hexavalent Chromium	8/1/2019	0.0031	Y	y	v		0.0002	0.0000	mg/L
MW-15	1924989-05	Hexavalent Chromium	8/1/2019	#####	Y	y	v		0.0002	0.0000	mg/L
MW-5	1924989-03	Hexavalent Chromium	8/1/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-6	1924989-04	Hexavalent Chromium	8/1/2019	0.0015	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	1924989-02	Chloride	8/1/2019	39	Y	y	v		0.50	0.15	mg/L
MW-13	1924989-02	Nitrate as N	8/1/2019	4.7	Y	y	v		0.10	0.042	mg/L
MW-13	1924989-02	Sulfate	8/1/2019	55	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
MW-13	1924989-02	Perchlorate	8/15/2019	29	Y	y	v		20	3.8	ug/L
MW-5	1924989-03	Perchlorate	8/15/2019	4	Y	n	u		4.0	0.76	ug/L
MW-6	1924989-04	Perchlorate	8/15/2019	3.7	Y	y	v j		4.0	0.76	ug/L

SDG: 1924989

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	1924989-02	Nitrite as N	8/1/2019	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	1924989-02	ortho-Phosphate as P	8/1/2019	0.049	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
MW-13	1924989-02	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-13	1924989-02	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1924989-02	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-13	1924989-02	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-13	1924989-02	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-13	1924989-02	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1924989-02	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1924989-02	Trichlorofluoromethane	8/1/2019	3.6	Y	y	v		0.50	0.14	ug/L
MW-13	1924989-02	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
MW-13	1924989-02	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1924989-02	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1924989-02	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1924989-02	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1924989-02	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	Tetrachloroethene	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1924989

Analytical 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	1924989-02	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-13	1924989-02	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-13	1924989-02	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-13	1924989-02	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-13	1924989-02	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-13	1924989-02	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-13	1924989-02	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1924989-02	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-13	1924989-02	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-13	1924989-02	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
MW-13	1924989-02	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-13	1924989-02	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-13	1924989-02	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-13	1924989-02	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-13	1924989-02	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-13	1924989-02	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-13	1924989-02	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-13	1924989-02	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1924989-02	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-13	1924989-02	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1924989-02	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-13	1924989-02	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-13	1924989-02	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L

SDG: 1924989

Analytical 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	1924989-02	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1924989-02	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-13	1924989-02	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-13	1924989-02	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-13	1924989-02	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1924989-02	Chloroform	8/1/2019	0.79	Y	y	v		0.50	0.14	ug/L
MW-13	1924989-02	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1924989-02	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1924989-02	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1924989-02	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1924989-02	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-13	1924989-02	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1924989-02	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1924989-02	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-13	1924989-02	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-13	1924989-02	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-13	1924989-02	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1924989-02	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1924989

Analytical 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	1924989-02	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-13	1924989-02	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1924989-02	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-13	1924989-02	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-13	1924989-02	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-13	1924989-02	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-13	1924989-02	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1924989-02	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-13	1924989-02	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-13	1924989-02	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-13	1924989-02	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-13	1924989-02	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-13	1924989-02	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1924989-03	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-5	1924989-03	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1924989-03	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L

SDG: 1924989

Analytical 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	1924989-03	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-5	1924989-03	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1924989-03	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1924989-03	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1924989-03	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1924989-03	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1924989-03	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1924989-03	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1924989-03	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1924989-03	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1924989-03	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1924989-03	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1924989-03	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1924989-03	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-5	1924989-03	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1924989-03	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-5	1924989-03	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1924989

Analytical 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	1924989-03	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
MW-5	1924989-03	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-5	1924989-03	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-5	1924989-03	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1924989-03	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-5	1924989-03	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1924989-03	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-5	1924989-03	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1924989-03	Chloroform	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-5	1924989-03	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1924989-03	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-5	1924989-03	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-5	1924989-03	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-5	1924989-03	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-5	1924989-03	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1924989-03	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-5	1924989-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1924989-03	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-5	1924989-03	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-5	1924989-03	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-5	1924989-03	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-5	1924989-03	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-5	1924989-03	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-5	1924989-03	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-5	1924989-03	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-5	1924989-03	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-5	1924989-03	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-5	1924989-03	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-5	1924989-03	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1924989-03	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-5	1924989-03	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
MW-5	1924989-03	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-5	1924989-03	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1924989-03	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-5	1924989-03	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1924989-03	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1924989-03	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-5	1924989-03	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-5	1924989-03	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-5	1924989-03	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-5	1924989-03	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-5	1924989-03	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-5	1924989-03	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1924989-03	Tetrachloroethene	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-5	1924989-03	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-5	1924989-03	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1924989-04	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1924989-04	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	Trichloroethene	8/1/2019	3.2	Y	y	v		0.50	0.19	ug/L
MW-6	1924989-04	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1924989-04	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1924989-04	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1924989-04	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1924989-04	Tetrachloroethene	8/1/2019	0.76	Y	y	v		0.50	0.23	ug/L
MW-6	1924989-04	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1924989-04	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1924989-04	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
MW-6	1924989-04	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1924989-04	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-6	1924989-04	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1924989-04	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1924989-04	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-6	1924989-04	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1924989-04	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
MW-6	1924989-04	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
MW-6	1924989-04	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
MW-6	1924989-04	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
MW-6	1924989-04	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
MW-6	1924989-04	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
MW-6	1924989-04	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
MW-6	1924989-04	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
MW-6	1924989-04	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
MW-6	1924989-04	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-6	1924989-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1924989-04	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
MW-6	1924989-04	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
MW-6	1924989-04	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1924989-04	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
MW-6	1924989-04	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
MW-6	1924989-04	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
MW-6	1924989-04	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1924989-04	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1924989-04	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1924989-04	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1924989-04	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1924989-04	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1924989-04	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1924989-04	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1924989-04	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-6	1924989-04	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-6	1924989-04	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1924989-04	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-6	1924989-04	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1924989-04	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
MW-6	1924989-04	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
MW-6	1924989-04	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
MW-6	1924989-04	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
MW-6	1924989-04	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
MW-6	1924989-04	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
MW-6	1924989-04	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
MW-6	1924989-04	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-6	1924989-04	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-6	1924989-04	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-6	1924989-04	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1924989-04	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-6	1924989-04	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	trans-1,2-Dichloroethene	8/1/2019	0.24	Y	y	v j		0.50	0.17	ug/L
MW-6	1924989-04	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1924989-04	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-6	1924989-04	1,1-Dichloroethane	8/1/2019	0.16	Y	y	v j		0.50	0.15	ug/L
MW-6	1924989-04	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-6	1924989-04	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-6	1924989-04	Chloroform	8/1/2019	0.62	Y	y	v		0.50	0.14	ug/L
MW-6	1924989-04	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-6	1924989-04	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-6	1924989-04	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-6	1924989-04	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-6	1924989-04	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1924989-04	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
MW-6	1924989-04	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-6	1924989-04	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-6	1924989-04	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-073119	1924989-01	trans-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	1,4-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	Dichlorodifluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	1,1-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	1,2-Dichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	1,1-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-073119	1924989-01	cis-1,2-Dichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-8-073119	1924989-01	1,3-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-073119	1924989-01	1,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	1,3-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-073119	1924989-01	2,2-Dichloropropane	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-073119	1924989-01	1,1-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-073119	1924989-01	cis-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	trans-1,3-Dichloropropene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-073119	1924989-01	Ethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	Hexachlorobutadiene	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-073119	1924989-01	Isopropylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	Methylene chloride	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-073119	1924989-01	p-Isopropyltoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	Chlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	t-Butyl alcohol	8/1/2019	10	Y	n	u		10	9.4	ug/L
TB-8-073119	1924989-01	Benzene	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-073119	1924989-01	Methyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	Bromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-8-073119	1924989-01	Bromodichloromethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-073119	1924989-01	Bromoform	8/1/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-8-073119	1924989-01	Bromomethane	8/1/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-8-073119	1924989-01	n-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	sec-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-8-073119	1924989-01	Bromobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	Carbon tetrachloride	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	1,2-Dichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1924989

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-8-073119	1924989-01	Chloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	Chloroform	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	Chloromethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-073119	1924989-01	2-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	4-Chlorotoluene	8/1/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-8-073119	1924989-01	Dibromochloromethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-073119	1924989-01	1,2-Dibromo-3-chloropropane	8/1/2019	1	Y	n	u		1.0	0.89	ug/L
TB-8-073119	1924989-01	1,2-Dibromoethane	8/1/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-8-073119	1924989-01	Dibromomethane	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-073119	1924989-01	tert-Butylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-8-073119	1924989-01	Propionitrile	8/1/2019	20	Y	n	u		20	6.2	ug/L
TB-8-073119	1924989-01	Ethyl methacrylate	8/1/2019	4	Y	n	u		4.0	1.3	ug/L
TB-8-073119	1924989-01	Ethyl t-butyl ether	8/1/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-8-073119	1924989-01	Hexachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-8-073119	1924989-01	2-Hexanone	8/1/2019	10	Y	n	u		10	5.0	ug/L
TB-8-073119	1924989-01	Methacrylonitrile	8/1/2019	10	Y	n	u		10	2.3	ug/L
TB-8-073119	1924989-01	Methyl ethyl ketone	8/1/2019	10	Y	n	u		10	3.3	ug/L
TB-8-073119	1924989-01	Methyl iodide	8/1/2019	2	Y	n	u	UJ	2.0	1.1	ug/L
TB-8-073119	1924989-01	Methyl isobutyl ketone	8/1/2019	10	Y	n	u		10	2.4	ug/L
TB-8-073119	1924989-01	Allyl chloride	8/1/2019	5	Y	n	u		5.0	0.47	ug/L
TB-8-073119	1924989-01	Pentachloroethane	8/1/2019	2	Y	n	u	UJ	2.0	0.63	ug/L
TB-8-073119	1924989-01	Carbon disulfide	8/1/2019	1	Y	n	u		1.0	0.48	ug/L
TB-8-073119	1924989-01	Tetrahydrofuran	8/1/2019	20	Y	n	u		20	5.2	ug/L
TB-8-073119	1924989-01	p- & m-Xylenes	8/1/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-8-073119	1924989-01	o-Xylene	8/1/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1924989

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-8-073119	1924989-01	Chloroacetonitrile	8/1/2019	0	Y	y	v				ug/L
TB-8-073119	1924989-01	1-Chlorobutane	8/1/2019	0	Y	y	v				ug/L
TB-8-073119	1924989-01	1,1-Dichloropropanone	8/1/2019	0	Y	y	v				ug/L
TB-8-073119	1924989-01	Methyl acrylate	8/1/2019	0	Y	y	v				ug/L
TB-8-073119	1924989-01	Nitrobenzene	8/1/2019	0	Y	y	v				ug/L
TB-8-073119	1924989-01	2-Nitropropane	8/1/2019	0	Y	y	v				ug/L
TB-8-073119	1924989-01	Methyl methacrylate	8/1/2019	5	Y	n	u		5.0	1.2	ug/L
TB-8-073119	1924989-01	Trichlorofluoromethane	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	n-Propylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-073119	1924989-01	Styrene	8/1/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-8-073119	1924989-01	1,1,1,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-073119	1924989-01	1,1,2,2-Tetrachloroethane	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	Tetrachloroethene	8/1/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-8-073119	1924989-01	Toluene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	1,2,3-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-073119	1924989-01	1,2,4-Trichlorobenzene	8/1/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-8-073119	1924989-01	1,1,1-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-8-073119	1924989-01	Diethyl ether	8/1/2019	2	Y	n	u		2.0	0.33	ug/L
TB-8-073119	1924989-01	Trichloroethene	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-073119	1924989-01	trans-1,4-Dichloro-2-butene	8/1/2019	5	Y	n	u		5.0	1.8	ug/L
TB-8-073119	1924989-01	1,2,3-Trichloropropane	8/1/2019	1	Y	n	u		1.0	0.78	ug/L
TB-8-073119	1924989-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-073119	1924989-01	1,2,4-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-8-073119	1924989-01	1,3,5-Trimethylbenzene	8/1/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-8-073119	1924989-01	Vinyl chloride	8/1/2019	0.5	Y	n	u		0.50	0.18	ug/L

SDG: 1924989

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-8-073119	1924989-01	Acetone	8/1/2019	10	Y	n	u		10	6.6	ug/L
TB-8-073119	1924989-01	Acrylonitrile	8/1/2019	5	Y	n	u		5.0	1.5	ug/L
TB-8-073119	1924989-01	t-Amyl Methyl ether	8/1/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-8-073119	1924989-01	Naphthalene	8/1/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-8-073119	1924989-01	1,1,2-Trichloroethane	8/1/2019	0.5	Y	n	u		0.50	0.21	ug/L

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

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 17, 2019
Parameters: Volatiles
Validation Level: Level III
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1925133

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-9-080119	1925133-01	Water	08/01/19
MW-10	1925133-02	Water	08/01/19
MW-16	1925133-03	Water	08/01/19
MW-7	1925133-04	Water	08/01/19
MW-8	1925133-05	Water	08/01/19
MW-16MS	1925133-03MS	Water	08/01/19
MW-16MSD	1925133-03MSD	Water	08/01/19

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.

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-9-080119 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

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1925133

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1925133

No Sample Data Qualified in this SDG

LDC #: 45845D1a

VALIDATION COMPLETENESS WORKSHEET

Date: 09/16/19

SDG #: 1925133

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: JVG

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 = 20% r ² ICV = 30%
IV.	Continuing calibration	A	CCV = 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	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-9-080119	1925133-01	Water	08/01/19
2	MW-10	1925133-02	Water	08/01/19
3	MW-16	1925133-03	Water	08/01/19
4	MW-7	1925133-04	Water	08/01/19
5	MW-8	1925133-05	Water	08/01/19
6	MW-16MS	1925133-03MS	Water	08/01/19
7	MW-16MSD	1925133-03MSD	Water	08/01/19
8				

Notes:

•	B052729-Blk 1					

(1925133-004)
 ending

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1925133

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-10	1925133-02	Water	08/01/19
MW-16	1925133-03	Water	08/01/19
MW-7	1925133-04	Water	08/01/19
MW-8	1925133-05	Water	08/01/19

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

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

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, 3Q2019
Chromium - Data Qualification Summary - SDG 1925133

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1925133

No Sample Data Qualified in this SDG

LDC #: 45845D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1925133

Level III

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	N	non-client sample used
VIII.	Duplicate sample analysis	N	↓
IX.	Serial Dilution	N	↓
X.	Laboratory control samples	A	ICS
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-10	1925133-02	Water	08/01/19
2	MW-16	1925133-03	Water	08/01/19
3	MW-7	1925133-04	Water	08/01/19
4	MW-8	1925133-05	Water	08/01/19
5				
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7				
8				
9				
10				
11				
12				

Notes: _____

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

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 13, 2019
Parameters: Wet Chemistry
Validation Level: Level III
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1925133

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-10	1925133-02	Water	08/01/19
MW-16	1925133-03	Water	08/01/19
MW-7	1925133-04	Water	08/01/19
MW-8	1925133-05	Water	08/01/19
MW-16MS	1925133-03MS	Water	08/01/19
MW-16MSD	1925133-03MSD	Water	08/01/19
MW-16DUP	1925133-03DUP	Water	08/01/19

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:

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

Hexavalent Chromium by EPA Method 218.6

Nitrite as Nitrogen by EPA Method 353.2

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

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

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, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1925133

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1925133

No Sample Data Qualified in this SDG

LDC #: 45845D6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1925133

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *ALL*

2nd Reviewer: *[Signature]*

METHOD: (Analyte) Chloride, Nitrate as N, Sulfate (EPA Method 300.0), Nitrate as N (EPA Method 353.2), ortho-Phosphate as 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	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	(5,6)
VII.	Duplicate sample analysis	A	7
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-10	1925133-02	Water	08/01/19
2	MW-16	1925133-03	Water	08/01/19
3	MW-7	1925133-04	Water	08/01/19
4	MW-8	1925133-05	Water	08/01/19
5	MW-16MS	1925133-03MS	Water	08/01/19
6	MW-16MSD	1925133-03MSD	Water	08/01/19
7	MW-16DUP	1925133-03DUP	Water	08/01/19
8				
9				
10				
11				
12				
13				
14				

Notes: _____

NASA JPL, 3Q2019 - LDC# 45845D

SDG: 1925133

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-10	1925133-02	Total Recoverable Chromium	8/12/2019	7.8	Y	y	v		3.0	0.50	ug/L
MW-16	1925133-03	Total Recoverable Chromium	8/12/2019	40	Y	y	v		3.0	0.50	ug/L
MW-7	1925133-04	Total Recoverable Chromium	8/12/2019	25	Y	y	v		3.0	0.50	ug/L
MW-8	1925133-05	Total Recoverable Chromium	8/12/2019	3.4	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
MW-10	1925133-02	Hexavalent Chromium	8/5/2019	0.001	Y	y	v		0.0002	0.0000	mg/L
MW-16	1925133-03	Hexavalent Chromium	8/5/2019	0.0011	Y	y	v		0.0002	0.0000	mg/L
MW-7	1925133-04	Hexavalent Chromium	8/6/2019	0.0016	Y	y	v		0.0002	0.0000	mg/L
MW-8	1925133-05	Hexavalent Chromium	8/6/2019	#####	Y	y	v j		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-16	1925133-03	Nitrate as N	8/1/2019	2.9	Y	y	v		0.10	0.042	mg/L
MW-16	1925133-03	Sulfate	8/1/2019	50	Y	y	v		1.0	0.20	mg/L
MW-16	1925133-03	Chloride	8/1/2019	71	Y	y	v		0.50	0.15	mg/L
MW-7	1925133-04	Sulfate	8/2/2019	50	Y	y	v		1.0	0.20	mg/L
MW-7	1925133-04	Chloride	8/2/2019	75	Y	y	v		0.50	0.15	mg/L
MW-7	1925133-04	Nitrate as N	8/2/2019	1.4	Y	y	v		0.10	0.042	mg/L
MW-8	1925133-05	Chloride	8/2/2019	7.4	Y	y	v		0.50	0.15	mg/L
MW-8	1925133-05	Nitrate as N	8/2/2019	0.73	Y	y	v		0.10	0.042	mg/L
MW-8	1925133-05	Sulfate	8/2/2019	27	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

SDG: 1925133

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-10	1925133-02	Perchlorate	8/16/2019	4	Y	n	u		4.0	0.76	ug/L
MW-16	1925133-03	Perchlorate	8/16/2019	2.9	Y	y	v j		4.0	0.76	ug/L
MW-7	1925133-04	Perchlorate	8/16/2019	4.3	Y	y	v		4.0	0.76	ug/L
MW-8	1925133-05	Perchlorate	8/16/2019	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-16	1925133-03	Nitrite as N	8/2/2019	0.05	Y	n	u		0.050	0.010	mg/L
MW-7	1925133-04	Nitrite as N	8/2/2019	0.05	Y	n	u		0.050	0.010	mg/L
MW-8	1925133-05	Nitrite as N	8/2/2019	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-16	1925133-03	ortho-Phosphate as P	8/2/2019	0.27	Y	y	v		0.050	0.017	mg/L
MW-7	1925133-04	ortho-Phosphate as P	8/2/2019	0.017	Y	y	v j		0.050	0.017	mg/L
MW-8	1925133-05	ortho-Phosphate as P	8/2/2019	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
MW-10	1925133-02	Trichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1925133-02	Trichlorofluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	1,2,3-Trichloropropane	8/4/2019	1	Y	n	u		1.0	0.78	ug/L
MW-10	1925133-02	1,1,2-Trichloro-1,2,2-trifluoroethane	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1925133-02	1,2,4-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1925133-02	1,1,2-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1925133-02	Vinyl chloride	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1925133-02	Toluene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1925133-02	Acetone	8/4/2019	10	Y	n	u		10	6.6	ug/L
MW-10	1925133-02	Acrylonitrile	8/4/2019	5	Y	n	u		5.0	1.5	ug/L
MW-10	1925133-02	1,3,5-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	1,1,1-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1925133-02	Allyl chloride	8/4/2019	5	Y	n	u		5.0	0.47	ug/L
MW-10	1925133-02	1,2,3-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1925133-02	Tetrachloroethene	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-10	1925133-02	1,1,2,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1925133-02	1,1,1,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1925133-02	Styrene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1925133-02	n-Propylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-10	1925133-02	Naphthalene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1925133-02	Methyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	Methylene chloride	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1925133-02	1,2,4-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	Methyl isobutyl ketone	8/4/2019	10	Y	n	u		10	2.4	ug/L
MW-10	1925133-02	2-Nitropropane	8/4/2019	0	Y	y	v				ug/L
MW-10	1925133-02	Nitrobenzene	8/4/2019	0	Y	y	v				ug/L
MW-10	1925133-02	Methyl acrylate	8/4/2019	0	Y	y	v				ug/L
MW-10	1925133-02	1,1-Dichloropropanone	8/4/2019	0	Y	y	v				ug/L
MW-10	1925133-02	1-Chlorobutane	8/4/2019	0	Y	y	v				ug/L
MW-10	1925133-02	Chloroacetonitrile	8/4/2019	0	Y	y	v				ug/L
MW-10	1925133-02	o-Xylene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1925133-02	p- & m-Xylenes	8/4/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-10	1925133-02	Tetrahydrofuran	8/4/2019	20	Y	n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1925133-02	Propionitrile	8/4/2019	20	Y	n	u		20	6.2	ug/L
MW-10	1925133-02	Carbon disulfide	8/4/2019	1	Y	n	u		1.0	0.48	ug/L
MW-10	1925133-02	Methyl methacrylate	8/4/2019	5	Y	n	u		5.0	1.2	ug/L
MW-10	1925133-02	t-Amyl Methyl ether	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1925133-02	Methyl iodide	8/4/2019	2	Y	n	u		2.0	1.1	ug/L
MW-10	1925133-02	Methyl ethyl ketone	8/4/2019	10	Y	n	u		10	3.3	ug/L
MW-10	1925133-02	Methacrylonitrile	8/4/2019	10	Y	n	u		10	2.3	ug/L
MW-10	1925133-02	2-Hexanone	8/4/2019	10	Y	n	u		10	5.0	ug/L
MW-10	1925133-02	Hexachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1925133-02	Ethyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-10	1925133-02	Ethyl methacrylate	8/4/2019	4	Y	n	u		4.0	1.3	ug/L
MW-10	1925133-02	t-Butyl alcohol	8/4/2019	10	Y	n	u		10	9.4	ug/L
MW-10	1925133-02	Diethyl ether	8/4/2019	2	Y	n	u		2.0	0.33	ug/L
MW-10	1925133-02	p-Isopropyltoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	Pentachloroethane	8/4/2019	2	Y	n	u		2.0	0.63	ug/L
MW-10	1925133-02	sec-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1925133-02	Dibromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1925133-02	4-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-10	1925133-02	2-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	Chloromethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1925133-02	Chloroform	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	Chloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1925133-02	Chlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	1,2-Dibromo-3-chloropropane	8/4/2019	1	Y	n	u		1.0	0.89	ug/L
MW-10	1925133-02	tert-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-10	1925133-02	n-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	Bromomethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1925133-02	Bromodichloromethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1925133-02	Bromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1925133-02	Bromobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	Benzene	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-10	1925133-02	Isopropylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	trans-1,4-Dichloro-2-butene	8/4/2019	5	Y	n	u		5.0	1.8	ug/L
MW-10	1925133-02	Carbon tetrachloride	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1925133-02	1,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	Ethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	Hexachlorobutadiene	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-10	1925133-02	Bromoform	8/4/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-10	1925133-02	1,2-Dibromoethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-10	1925133-02	trans-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1925133-02	cis-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-10	1925133-02	1,1-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-10	1925133-02	2,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-10	1925133-02	1,3-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-10	1925133-02	trans-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1925133-02	cis-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1925133-02	1,1-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-10	1925133-02	1,2-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-10	1925133-02	1,1-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	Dichlorodifluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L

SDG: 1925133

Analytical 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	1925133-02	1,4-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-10	1925133-02	1,3-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-10	1925133-02	1,2-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-10	1925133-02	Dibromomethane	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1925133-03	1,2,4-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	2-Hexanone	8/4/2019	10	Y	n	u		10	5.0	ug/L
MW-16	1925133-03	Trichlorofluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Hexachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1925133-03	sec-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1925133-03	Ethyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-16	1925133-03	Ethyl methacrylate	8/4/2019	4	Y	n	u		4.0	1.3	ug/L
MW-16	1925133-03	Diethyl ether	8/4/2019	2	Y	n	u		2.0	0.33	ug/L
MW-16	1925133-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1925133-03	trans-1,4-Dichloro-2-butene	8/4/2019	5	Y	n	u		5.0	1.8	ug/L
MW-16	1925133-03	Allyl chloride	8/4/2019	5	Y	n	u		5.0	0.47	ug/L
MW-16	1925133-03	t-Butyl alcohol	8/4/2019	10	Y	n	u		10	9.4	ug/L
MW-16	1925133-03	Acrylonitrile	8/4/2019	5	Y	n	u		5.0	1.5	ug/L
MW-16	1925133-03	1,3,5-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Vinyl chloride	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1925133-03	Acetone	8/4/2019	10	Y	n	u		10	6.6	ug/L
MW-16	1925133-03	t-Amyl Methyl ether	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1925133-03	Methacrylonitrile	8/4/2019	10	Y	n	u		10	2.3	ug/L
MW-16	1925133-03	Chloroacetonitrile	8/4/2019	0	Y	y	v				ug/L
MW-16	1925133-03	Carbon disulfide	8/4/2019	1	Y	n	u		1.0	0.48	ug/L
MW-16	1925133-03	Methyl acrylate	8/4/2019	0	Y	y	v				ug/L

SDG: 1925133

Analytical 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	1925133-03	1,2-Dibromo-3-chloropropane	8/4/2019	1	Y	n	u		1.0	0.89	ug/L
MW-16	1925133-03	1,2-Dibromoethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1925133-03	Dibromomethane	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1925133-03	1,2-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1925133-03	Bromoform	8/4/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-16	1925133-03	1,3-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1925133-03	Bromomethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1925133-03	n-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	p- & m-Xylenes	8/4/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-16	1925133-03	1,1,2-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1925133-03	Methyl ethyl ketone	8/4/2019	10	Y	n	u		10	3.3	ug/L
MW-16	1925133-03	1,1-Dichloropropanone	8/4/2019	0	Y	y	v				ug/L
MW-16	1925133-03	1-Chlorobutane	8/4/2019	0	Y	y	v				ug/L
MW-16	1925133-03	o-Xylene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1925133-03	Tetrahydrofuran	8/4/2019	20	Y	n	u		20	5.2	ug/L
MW-16	1925133-03	Propionitrile	8/4/2019	20	Y	n	u		20	6.2	ug/L
MW-16	1925133-03	Pentachloroethane	8/4/2019	2	Y	n	u		2.0	0.63	ug/L
MW-16	1925133-03	Methyl methacrylate	8/4/2019	5	Y	n	u		5.0	1.2	ug/L
MW-16	1925133-03	Methyl isobutyl ketone	8/4/2019	10	Y	n	u		10	2.4	ug/L
MW-16	1925133-03	Methyl iodide	8/4/2019	2	Y	n	u		2.0	1.1	ug/L
MW-16	1925133-03	Bromobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	1,1-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1925133-03	1,4-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	Dichlorodifluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	1,1-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-16	1925133-03	1,2-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	1,1-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1925133-03	cis-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1925133-03	trans-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	1,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	Bromodichloromethane	8/4/2019	0.75	Y	y	v		0.50	0.20	ug/L
MW-16	1925133-03	2,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1925133-03	tert-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-16	1925133-03	Dibromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-16	1925133-03	Chloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	Chloroform	8/4/2019	5.6	Y	y	v		0.50	0.14	ug/L
MW-16	1925133-03	Nitrobenzene	8/4/2019	0	Y	y	v				ug/L
MW-16	1925133-03	Chloromethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1925133-03	1,2,3-Trichloropropane	8/4/2019	1	Y	n	u		1.0	0.78	ug/L
MW-16	1925133-03	2-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	4-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-16	1925133-03	1,3-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1925133-03	Methylene chloride	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1925133-03	1,2,4-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	1,2,3-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-16	1925133-03	Toluene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	Tetrachloroethene	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-16	1925133-03	1,1,2,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	1,1,1,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1925133-03	Styrene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-16	1925133-03	n-Propylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-16	1925133-03	Chlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Methyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Carbon tetrachloride	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-16	1925133-03	p-Isopropyltoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Isopropylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Hexachlorobutadiene	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-16	1925133-03	Ethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-16	1925133-03	trans-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-16	1925133-03	cis-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-16	1925133-03	Bromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-16	1925133-03	Benzene	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-16	1925133-03	1,1,1-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-16	1925133-03	Naphthalene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-16	1925133-03	2-Nitropropane	8/4/2019	0	Y	y	v				ug/L
MW-16	1925133-03	Trichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1925133-04	Trichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1925133-04	Carbon disulfide	8/4/2019	1	Y	n	u		1.0	0.48	ug/L
MW-7	1925133-04	t-Amyl Methyl ether	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1925133-04	Allyl chloride	8/4/2019	5	Y	n	u		5.0	0.47	ug/L
MW-7	1925133-04	Acrylonitrile	8/4/2019	5	Y	n	u		5.0	1.5	ug/L
MW-7	1925133-04	Acetone	8/4/2019	10	Y	n	u		10	6.6	ug/L
MW-7	1925133-04	Vinyl chloride	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1925133-04	1,3,5-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	1,2,4-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1925133-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1925133-04	Styrene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1925133-04	Trichlorofluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	1,1,2-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1925133-04	1,1,1-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1925133-04	1,2,4-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1925133-04	1,2,3-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1925133-04	Toluene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1925133-04	Tetrachloroethene	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1925133-04	1,1,2,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1925133-04	1,1,1,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1925133-04	1,2,3-Trichloropropane	8/4/2019	1	Y	n	u		1.0	0.78	ug/L
MW-7	1925133-04	Pentachloroethane	8/4/2019	2	Y	n	u		2.0	0.63	ug/L
MW-7	1925133-04	2-Nitropropane	8/4/2019	0	Y	y	v				ug/L
MW-7	1925133-04	Nitrobenzene	8/4/2019	0	Y	y	v				ug/L
MW-7	1925133-04	Methyl acrylate	8/4/2019	0	Y	y	v				ug/L
MW-7	1925133-04	1,1-Dichloropropanone	8/4/2019	0	Y	y	v				ug/L
MW-7	1925133-04	1-Chlorobutane	8/4/2019	0	Y	y	v				ug/L
MW-7	1925133-04	Chloroacetonitrile	8/4/2019	0	Y	y	v				ug/L
MW-7	1925133-04	o-Xylene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1925133-04	p- & m-Xylenes	8/4/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-7	1925133-04	Diethyl ether	8/4/2019	2	Y	n	u		2.0	0.33	ug/L
MW-7	1925133-04	Propionitrile	8/4/2019	20	Y	n	u		20	6.2	ug/L
MW-7	1925133-04	Ethyl methacrylate	8/4/2019	4	Y	n	u		4.0	1.3	ug/L
MW-7	1925133-04	Methyl methacrylate	8/4/2019	5	Y	n	u		5.0	1.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1925133-04	Methyl isobutyl ketone	8/4/2019	10	Y	n	u		10	2.4	ug/L
MW-7	1925133-04	Methyl iodide	8/4/2019	2	Y	n	u		2.0	1.1	ug/L
MW-7	1925133-04	Methyl ethyl ketone	8/4/2019	10	Y	n	u		10	3.3	ug/L
MW-7	1925133-04	Methacrylonitrile	8/4/2019	10	Y	n	u		10	2.3	ug/L
MW-7	1925133-04	2-Hexanone	8/4/2019	10	Y	n	u		10	5.0	ug/L
MW-7	1925133-04	Hexachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1925133-04	Ethyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-7	1925133-04	t-Butyl alcohol	8/4/2019	10	Y	n	u		10	9.4	ug/L
MW-7	1925133-04	Tetrahydrofuran	8/4/2019	20	Y	n	u		20	5.2	ug/L
MW-7	1925133-04	Carbon tetrachloride	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1925133-04	1,2-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1925133-04	Dibromomethane	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-7	1925133-04	1,2-Dibromoethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1925133-04	1,2-Dibromo-3-chloropropane	8/4/2019	1	Y	n	u		1.0	0.89	ug/L
MW-7	1925133-04	Dibromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-7	1925133-04	4-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-7	1925133-04	2-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	Bromobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1925133-04	1,3-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1925133-04	Chlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	Chloromethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1925133-04	tert-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1925133-04	sec-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1925133-04	n-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1925133-04	Bromomethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1925133-04	Bromoform	8/4/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-7	1925133-04	Bromodichloromethane	8/4/2019	1.5	Y	y	v		0.50	0.20	ug/L
MW-7	1925133-04	Bromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1925133-04	n-Propylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-7	1925133-04	trans-1,4-Dichloro-2-butene	8/4/2019	5	Y	n	u		5.0	1.8	ug/L
MW-7	1925133-04	Chloroform	8/4/2019	4.4	Y	y	v		0.50	0.14	ug/L
MW-7	1925133-04	Methylene chloride	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-7	1925133-04	Naphthalene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-7	1925133-04	Chloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1925133-04	Methyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	1,4-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1925133-04	p-Isopropyltoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	Isopropylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	Hexachlorobutadiene	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-7	1925133-04	Ethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1925133-04	trans-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1925133-04	cis-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-7	1925133-04	1,1-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-7	1925133-04	1,1-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-7	1925133-04	Benzene	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-7	1925133-04	1,2-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1925133-04	1,1-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1925133-04	cis-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-7	1925133-04	trans-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-7	1925133-04	1,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-7	1925133-04	1,3-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-7	1925133-04	2,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-7	1925133-04	Dichlorodifluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	1,2,3-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1925133-05	t-Butyl alcohol	8/4/2019	10	Y	n	u		10	9.4	ug/L
MW-8	1925133-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1925133-05	t-Amyl Methyl ether	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1925133-05	Allyl chloride	8/4/2019	5	Y	n	u		5.0	0.47	ug/L
MW-8	1925133-05	Acrylonitrile	8/4/2019	5	Y	n	u		5.0	1.5	ug/L
MW-8	1925133-05	Acetone	8/4/2019	10	Y	n	u		10	6.6	ug/L
MW-8	1925133-05	Vinyl chloride	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1925133-05	1,3,5-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	1,2,4-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	1,2,3-Trichloropropane	8/4/2019	1	Y	n	u		1.0	0.78	ug/L
MW-8	1925133-05	Trichlorofluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	Trichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1925133-05	1,1,2-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1925133-05	1,1,2,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	1,2,4-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	1,1,1,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1925133-05	Toluene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	Tetrachloroethene	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1925133-05	Carbon disulfide	8/4/2019	1	Y	n	u		1.0	0.48	ug/L
MW-8	1925133-05	1,1,1-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1925133-05	Methyl methacrylate	8/4/2019	5	Y	n	u		5.0	1.2	ug/L

SDG: 1925133

Analytical 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	1925133-05	2-Nitropropane	8/4/2019	0	Y	y	v				ug/L
MW-8	1925133-05	Naphthalene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1925133-05	Nitrobenzene	8/4/2019	0	Y	y	v				ug/L
MW-8	1925133-05	1,1-Dichloropropanone	8/4/2019	0	Y	y	v				ug/L
MW-8	1925133-05	1-Chlorobutane	8/4/2019	0	Y	y	v				ug/L
MW-8	1925133-05	Chloroacetonitrile	8/4/2019	0	Y	y	v				ug/L
MW-8	1925133-05	o-Xylene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1925133-05	p- & m-Xylenes	8/4/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-8	1925133-05	Tetrahydrofuran	8/4/2019	20	Y	n	u		20	5.2	ug/L
MW-8	1925133-05	Methyl acrylate	8/4/2019	0	Y	y	v				ug/L
MW-8	1925133-05	Pentachloroethane	8/4/2019	2	Y	n	u		2.0	0.63	ug/L
MW-8	1925133-05	trans-1,4-Dichloro-2-butene	8/4/2019	5	Y	n	u		5.0	1.8	ug/L
MW-8	1925133-05	Methyl isobutyl ketone	8/4/2019	10	Y	n	u		10	2.4	ug/L
MW-8	1925133-05	Methyl iodide	8/4/2019	2	Y	n	u		2.0	1.1	ug/L
MW-8	1925133-05	Methyl ethyl ketone	8/4/2019	10	Y	n	u		10	3.3	ug/L
MW-8	1925133-05	Methacrylonitrile	8/4/2019	10	Y	n	u		10	2.3	ug/L
MW-8	1925133-05	2-Hexanone	8/4/2019	10	Y	n	u		10	5.0	ug/L
MW-8	1925133-05	Hexachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1925133-05	Ethyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-8	1925133-05	Ethyl methacrylate	8/4/2019	4	Y	n	u		4.0	1.3	ug/L
MW-8	1925133-05	Diethyl ether	8/4/2019	2	Y	n	u		2.0	0.33	ug/L
MW-8	1925133-05	Propionitrile	8/4/2019	20	Y	n	u		20	6.2	ug/L
MW-8	1925133-05	1,2-Dibromoethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1925133-05	Bromodichloromethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1925133-05	Bromoform	8/4/2019	0.5	Y	n	u		0.50	0.46	ug/L

SDG: 1925133

Analytical 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	1925133-05	Bromomethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-8	1925133-05	n-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	sec-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1925133-05	tert-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1925133-05	Carbon tetrachloride	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	Chloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	Chloromethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1925133-05	2-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	4-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-8	1925133-05	Bromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1925133-05	1,2-Dibromo-3-chloropropane	8/4/2019	1	Y	n	u		1.0	0.89	ug/L
MW-8	1925133-05	Chlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	Dibromomethane	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-8	1925133-05	1,2-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1925133-05	1,3-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-8	1925133-05	1,4-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	Dichlorodifluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	1,1-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	1,2-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	1,1-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1925133-05	cis-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-8	1925133-05	n-Propylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1925133-05	Styrene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-8	1925133-05	Dibromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-8	1925133-05	trans-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L

SDG: 1925133

Analytical 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	1925133-05	Methyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	Methylene chloride	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-8	1925133-05	p-Isopropyltoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	Isopropylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	Chloroform	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	Ethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	Bromobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	cis-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-8	1925133-05	1,1-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-8	1925133-05	2,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-8	1925133-05	1,3-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-8	1925133-05	1,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-8	1925133-05	trans-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-8	1925133-05	Benzene	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-8	1925133-05	Hexachlorobutadiene	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-9-080119	1925133-01	Chloromethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-9-080119	1925133-01	1,1-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-9-080119	1925133-01	1,2-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-080119	1925133-01	1,1-Dichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	Dichlorodifluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	1,4-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	Benzene	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-9-080119	1925133-01	1,3-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-9-080119	1925133-01	1,2-Dichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-080119	1925133-01	Dibromomethane	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-9-080119	1925133-01	1,2-Dibromoethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-9-080119	1925133-01	1,2-Dibromo-3-chloropropane	8/4/2019	1	Y	n	u		1.0	0.89	ug/L
TB-9-080119	1925133-01	Dibromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-9-080119	1925133-01	sec-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-080119	1925133-01	Bromochloromethane	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-9-080119	1925133-01	Bromodichloromethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-9-080119	1925133-01	Bromoform	8/4/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-9-080119	1925133-01	cis-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-9-080119	1925133-01	Bromomethane	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-9-080119	1925133-01	4-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-9-080119	1925133-01	n-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	2-Chlorotoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	tert-Butylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-080119	1925133-01	Carbon tetrachloride	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-080119	1925133-01	Chlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	Chloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-080119	1925133-01	Chloroform	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	Bromobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	Hexachlorobutadiene	8/4/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-9-080119	1925133-01	Methyl isobutyl ketone	8/4/2019	10	Y	n	u		10	2.4	ug/L
TB-9-080119	1925133-01	trans-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-080119	1925133-01	Allyl chloride	8/4/2019	5	Y	n	u		5.0	0.47	ug/L
TB-9-080119	1925133-01	t-Amyl Methyl ether	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-080119	1925133-01	t-Butyl alcohol	8/4/2019	10	Y	n	u		10	9.4	ug/L
TB-9-080119	1925133-01	Carbon disulfide	8/4/2019	1	Y	n	u		1.0	0.48	ug/L

SDG: 1925133

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-9-080119	1925133-01	trans-1,4-Dichloro-2-butene	8/4/2019	5	Y	n	u		5.0	1.8	ug/L
TB-9-080119	1925133-01	Diethyl ether	8/4/2019	2	Y	n	u		2.0	0.33	ug/L
TB-9-080119	1925133-01	Ethyl methacrylate	8/4/2019	4	Y	n	u		4.0	1.3	ug/L
TB-9-080119	1925133-01	Ethyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-9-080119	1925133-01	Hexachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-9-080119	1925133-01	2-Hexanone	8/4/2019	10	Y	n	u		10	5.0	ug/L
TB-9-080119	1925133-01	Methacrylonitrile	8/4/2019	10	Y	n	u		10	2.3	ug/L
TB-9-080119	1925133-01	Acetone	8/4/2019	10	Y	n	u		10	6.6	ug/L
TB-9-080119	1925133-01	Methyl iodide	8/4/2019	2	Y	n	u		2.0	1.1	ug/L
TB-9-080119	1925133-01	Vinyl chloride	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-080119	1925133-01	Methyl methacrylate	8/4/2019	5	Y	n	u		5.0	1.2	ug/L
TB-9-080119	1925133-01	Pentachloroethane	8/4/2019	2	Y	n	u		2.0	0.63	ug/L
TB-9-080119	1925133-01	Propionitrile	8/4/2019	20	Y	n	u		20	6.2	ug/L
TB-9-080119	1925133-01	Tetrahydrofuran	8/4/2019	20	Y	n	u		20	5.2	ug/L
TB-9-080119	1925133-01	p- & m-Xylenes	8/4/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-9-080119	1925133-01	o-Xylene	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-080119	1925133-01	Chloroacetonitrile	8/4/2019	0	Y	y	v				ug/L
TB-9-080119	1925133-01	1-Chlorobutane	8/4/2019	0	Y	y	v				ug/L
TB-9-080119	1925133-01	1,1-Dichloropropanone	8/4/2019	0	Y	y	v				ug/L
TB-9-080119	1925133-01	Methyl acrylate	8/4/2019	0	Y	y	v				ug/L
TB-9-080119	1925133-01	Nitrobenzene	8/4/2019	0	Y	y	v				ug/L
TB-9-080119	1925133-01	2-Nitropropane	8/4/2019	0	Y	y	v				ug/L
TB-9-080119	1925133-01	Methyl ethyl ketone	8/4/2019	10	Y	n	u		10	3.3	ug/L
TB-9-080119	1925133-01	1,1,2,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-080119	1925133-01	1,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-9-080119	1925133-01	1,3-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-9-080119	1925133-01	2,2-Dichloropropane	8/4/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-9-080119	1925133-01	1,1-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-080119	1925133-01	cis-1,3-Dichloropropene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	Ethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	Isopropylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	p-Isopropyltoluene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	Methylene chloride	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-080119	1925133-01	Methyl t-butyl ether	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	Naphthalene	8/4/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-9-080119	1925133-01	n-Propylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-9-080119	1925133-01	Acrylonitrile	8/4/2019	5	Y	n	u		5.0	1.5	ug/L
TB-9-080119	1925133-01	1,1,1,2-Tetrachloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-080119	1925133-01	trans-1,2-Dichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-080119	1925133-01	Tetrachloroethene	8/4/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-9-080119	1925133-01	Toluene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-9-080119	1925133-01	1,2,3-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-080119	1925133-01	1,2,4-Trichlorobenzene	8/4/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-9-080119	1925133-01	1,1,1-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-080119	1925133-01	1,1,2-Trichloroethane	8/4/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-9-080119	1925133-01	Trichloroethene	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-080119	1925133-01	Trichlorofluoromethane	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	1,2,3-Trichloropropane	8/4/2019	1	Y	n	u		1.0	0.78	ug/L
TB-9-080119	1925133-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/4/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-9-080119	1925133-01	1,2,4-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.17	ug/L

SDG: 1925133

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-9-080119	1925133-01	1,3,5-Trimethylbenzene	8/4/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-9-080119	1925133-01	Styrene	8/4/2019	0.5	Y	n	u		0.50	0.12	ug/L

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019
LDC Report Date: September 17, 2019
Parameters: Volatiles
Validation Level: Level III
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 1925507

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
TB-10-080519	1925507-01	Water	08/05/19
MW-23-3	1925507-03	Water	08/05/19
MW-23-2	1925507-04	Water	08/05/19
MW-23-1	1925507-05	Water	08/05/19
EB-8-080519	1925507-06	Water	08/05/19
SB-3-080519	1925507-07	Water	08/05/19
MW-23-3MS	1925507-03MS	Water	08/05/19
MW-23-3MSD	1925507-03MSD	Water	08/05/19

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.

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-9-080119 was identified as a trip blank. No contaminants were found.

Sample EB-8-080519 was identified as an equipment blank. No contaminants were found.

Sample SB-3-080519 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.

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

NASA JPL, 3Q2019
Volatiles - Data Qualification Summary - SDG 1925507

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1925507

No Sample Data Qualified in this SDG

LDC #: 45845E1a

VALIDATION COMPLETENESS WORKSHEET

Date: 09/16/19

SDG #: 1925507

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / A	ICAL = 20% r ² ICV = 30%
IV.	Continuing calibration	A	CCV = 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 1 EB = 8 SB = 6
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-10-080519	1925507-01	Water	08/05/19
2	MW-23-3	1925507-03	Water	08/05/19
3	MW-23-2	1925507-04	Water	08/05/19
4	MW-23-1	1925507-05	Water	08/05/19
5	EB-8-080519	1925507-06	Water	08/05/19
6	SB-3-080519	1925507-07	Water	08/05/19
7	MW-23-3MS	1925507-03MS	Water	08/05/19
8	MW-23-3MSD	1925507-03MSD	Water	08/05/19
9				

Notes:

-	3052877-Blk 1				

(1915022-004 ending)

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Chromium

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1925507

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-4	1925507-02	Water	08/05/19
MW-23-3	1925507-03	Water	08/05/19
MW-23-2	1925507-04	Water	08/05/19
MW-23-1	1925507-05	Water	08/05/19
EB-8-080519	1925507-06	Water	08/05/19
SB-3-080519	1925507-07	Water	08/05/19
SB-3-080519MS	1925507-07MS	Water	08/05/19
SB-3-080519MSD	1925507-07MSD	Water	08/05/19
SB-3-080519DUP	1925507-07DUP	Water	08/05/19

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-8-080519 was identified as an equipment blank. No contaminants were found with the following exceptions:

Sample SB-3-080519 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
SB-3-080519	Chromium	0.62 ug/L

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the 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, 3Q2019
Chromium - Data Qualification Summary - SDG 1925507

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Chromium - Laboratory Blank Data Qualification Summary - SDG 1925507

No Sample Data Qualified in this SDG

LDC #: 45845E4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1925507

Level III

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	SW	EB=5, SB=6
VII.	Matrix Spike/Matrix Spike Duplicates	A	(7,8)
VIII.	Duplicate sample analysis	A	9
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-23-4	1925507-02	Water	08/05/19
2	MW-23-3	1925507-03	Water	08/05/19
3	MW-23-2	1925507-04	Water	08/05/19
4	MW-23-1	1925507-05	Water	08/05/19
5	EB-8-080519	1925507-06	Water	08/05/19
6	SB-3-080519	1925507-07	Water	08/05/19
7	SB-3-080519MS	1925507-07MS	Water	08/05/19
8	SB-3-080519MSD	1925507-07MSD	Water	08/05/19
9	SB-3-080519DUP	1925507-07DUP	Water	08/05/19
10				
11				
12				

Notes: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 3Q2019

LDC Report Date: September 13, 2019

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 1925507

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-23-4	1925507-02	Water	08/05/19
MW-23-3	1925507-03	Water	08/05/19
MW-23-2	1925507-04	Water	08/05/19
MW-23-1	1925507-05	Water	08/05/19
EB-8-080519	1925507-06	Water	08/05/19
SB-3-080519	1925507-07	Water	08/05/19
MW-23-4MS	1925507-02MS	Water	08/05/19
MW-23-4MSD	1925507-02MSD	Water	08/05/19
MW-23-4DUP	1925507-02DUP	Water	08/05/19
MW-23-3MS	1925507-03MS	Water	08/05/19
MW-23-3MSD	1925507-03MSD	Water	08/05/19
MW-23-3DUP	1925507-03DUP	Water	08/05/19

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-8-080519 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
EB-8-080519	Hexavalent chromium	0.000033 mg/L

Sample SB-3-080519 was identified as a source blank. No contaminants were found with the following exceptions:

Blank ID	Analyte	Concentration
SB-3-080519	Hexavalent chromium	0.000041 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.

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

NASA JPL, 3Q2019
Wet Chemistry - Data Qualification Summary - SDG 1925507

No Sample Data Qualified in this SDG

NASA JPL, 3Q2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1925507

No Sample Data Qualified in this SDG

LDC #: 45845E6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/12/19

SDG #: 1925507

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

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	SW	EB=5, SB=6
VI.	Matrix Spike/Matrix Spike Duplicates	A	(7,8), (10,11)
VII.	Duplicate sample analysis	A	9,12
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-23-4	1925507-02	Water	08/05/19
2	MW-23-3	1925507-03	Water	08/05/19
3	MW-23-2	1925507-04	Water	08/05/19
4	MW-23-1	1925507-05	Water	08/05/19
5	EB-8-080519	1925507-06	Water	08/05/19
6	SB-3-080519	1925507-07	Water	08/05/19
7	MW-23-4MS	1925507-02MS	Water	08/05/19
8	MW-23-4MSD	1925507-02MSD	Water	08/05/19
9	MW-23-4DUP	1925507-02DUP	Water	08/05/19
10	MW-23-3MS	1925507-03MS	Water	08/05/19
11	MW-23-3MSD	1925507-03MSD	Water	08/05/19
12	MW-23-3DUP	1925507-03DUP	Water	08/05/19
13				
14				

Notes: _____

NASA JPL, 3Q2019 - LDC# 45845

SDG: 1925507

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-8-080519	1925507-06	Total Recoverable Chromium	8/13/2019	3	Y	n	u		3.0	0.50	ug/L
MW-23-1	1925507-05	Total Recoverable Chromium	8/13/2019	0.72	Y	y	v j		3.0	0.50	ug/L
MW-23-2	1925507-04	Total Recoverable Chromium	8/13/2019	1.1	Y	y	v j		3.0	0.50	ug/L
MW-23-3	1925507-03	Total Recoverable Chromium	8/13/2019	3.1	Y	y	v		3.0	0.50	ug/L
MW-23-4	1925507-02	Total Recoverable Chromium	8/13/2019	3.2	Y	y	v		3.0	0.50	ug/L
SB-3-080519	1925507-07	Total Recoverable Chromium	8/16/2019	0.62	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
EB-8-080519	1925507-06	Hexavalent Chromium	8/6/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-23-1	1925507-05	Hexavalent Chromium	8/6/2019	#####	Y	y	v j		0.0002	0.0000	mg/L
MW-23-2	1925507-04	Hexavalent Chromium	8/6/2019	0.0009	Y	y	v		0.0002	0.0000	mg/L
MW-23-3	1925507-03	Hexavalent Chromium	8/6/2019	0.0027	Y	y	v		0.0002	0.0000	mg/L
MW-23-4	1925507-02	Hexavalent Chromium	8/6/2019	0.0029	Y	y	v		0.0002	0.0000	mg/L
SB-3-080519	1925507-07	Hexavalent Chromium	8/6/2019	#####	Y	y	v j		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-8-080519	1925507-06	Perchlorate	8/19/2019	4	Y	n	u		4.0	0.76	ug/L
MW-23-1	1925507-05	Perchlorate	8/19/2019	1.7	Y	y	v j		4.0	0.76	ug/L
MW-23-2	1925507-04	Perchlorate	8/19/2019	4	Y	y	v		4.0	0.76	ug/L
MW-23-3	1925507-03	Perchlorate	8/19/2019	3.1	Y	y	v j		4.0	0.76	ug/L
SB-3-080519	1925507-07	Perchlorate	8/19/2019	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

SDG: 1925507

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-8-080519	1925507-06	Trichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-080519	1925507-06	Trichlorofluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	1,2,3-Trichloropropane	8/6/2019	1	Y	n	u		1.0	0.78	ug/L
EB-8-080519	1925507-06	1,1,2-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-080519	1925507-06	1,2,4-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	Tetrachloroethene	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-8-080519	1925507-06	1,1,2-Trichloro-1,2,2-trifluoroethane	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-080519	1925507-06	1,1,1-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-080519	1925507-06	1,2,4-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	1,3,5-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	Toluene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	t-Butyl alcohol	8/6/2019	10	Y	n	u		10	9.4	ug/L
EB-8-080519	1925507-06	1,1,2,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	1,1,1,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-080519	1925507-06	Styrene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-8-080519	1925507-06	n-Propylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
EB-8-080519	1925507-06	Naphthalene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-8-080519	1925507-06	1,2,3-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-080519	1925507-06	Diethyl ether	8/6/2019	2	Y	n	u		2.0	0.33	ug/L
EB-8-080519	1925507-06	Methyl isobutyl ketone	8/6/2019	10	Y	n	u		10	2.4	ug/L
EB-8-080519	1925507-06	Methyl iodide	8/6/2019	2	Y	n	u		2.0	1.1	ug/L
EB-8-080519	1925507-06	Methyl ethyl ketone	8/6/2019	10	Y	n	u		10	3.3	ug/L
EB-8-080519	1925507-06	Methacrylonitrile	8/6/2019	10	Y	n	u		10	2.3	ug/L
EB-8-080519	1925507-06	2-Hexanone	8/6/2019	10	Y	n	u		10	5.0	ug/L
EB-8-080519	1925507-06	Hexachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-080519	1925507-06	Allyl chloride	8/6/2019	5	Y	n	u		5.0	0.47	ug/L
EB-8-080519	1925507-06	Ethyl methacrylate	8/6/2019	4	Y	n	u		4.0	1.3	ug/L
EB-8-080519	1925507-06	Vinyl chloride	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-080519	1925507-06	trans-1,4-Dichloro-2-butene	8/6/2019	5	Y	n	u		5.0	1.8	ug/L
EB-8-080519	1925507-06	1,3-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-080519	1925507-06	Methyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	Carbon disulfide	8/6/2019	1	Y	n	u		1.0	0.48	ug/L
EB-8-080519	1925507-06	t-Amyl Methyl ether	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-080519	1925507-06	Acrylonitrile	8/6/2019	5	Y	n	u		5.0	1.5	ug/L
EB-8-080519	1925507-06	Acetone	8/6/2019	10	Y	n	u		10	6.6	ug/L
EB-8-080519	1925507-06	Ethyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.32	ug/L
EB-8-080519	1925507-06	sec-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-080519	1925507-06	Dibromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-8-080519	1925507-06	4-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.093	ug/L
EB-8-080519	1925507-06	2-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	Chloromethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-080519	1925507-06	Chloroform	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	Chloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	Chlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	cis-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	tert-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-080519	1925507-06	Dibromomethane	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
EB-8-080519	1925507-06	n-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	Bromomethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-8-080519	1925507-06	Bromoform	8/6/2019	0.5	Y	n	u		0.50	0.46	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-080519	1925507-06	Bromodichloromethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-8-080519	1925507-06	Bromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-080519	1925507-06	Bromobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	Benzene	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
EB-8-080519	1925507-06	Carbon tetrachloride	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	cis-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-080519	1925507-06	p-Isopropyltoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	Isopropylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
EB-8-080519	1925507-06	Hexachlorobutadiene	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
EB-8-080519	1925507-06	Ethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	Methyl methacrylate	8/6/2019	5	Y	n	u		5.0	1.2	ug/L
EB-8-080519	1925507-06	2,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
EB-8-080519	1925507-06	trans-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-080519	1925507-06	1,2-Dibromo-3-chloropropane	8/6/2019	1	Y	n	u		1.0	0.89	ug/L
EB-8-080519	1925507-06	trans-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	1,2-Dibromoethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
EB-8-080519	1925507-06	1,1-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
EB-8-080519	1925507-06	1,2-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
EB-8-080519	1925507-06	1,1-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	Dichlorodifluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	1,4-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
EB-8-080519	1925507-06	1,3-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
EB-8-080519	1925507-06	1,2-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-080519	1925507-06	Methylene chloride	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
EB-8-080519	1925507-06	1,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
EB-8-080519	1925507-06	Nitrobenzene	8/6/2019	0	Y	y	v				ug/L
EB-8-080519	1925507-06	2-Nitropropane	8/6/2019	0	Y	y	v				ug/L
EB-8-080519	1925507-06	1,1-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
EB-8-080519	1925507-06	Methyl acrylate	8/6/2019	0	Y	y	v				ug/L
EB-8-080519	1925507-06	1,1-Dichloropropanone	8/6/2019	0	Y	y	v				ug/L
EB-8-080519	1925507-06	1-Chlorobutane	8/6/2019	0	Y	y	v				ug/L
EB-8-080519	1925507-06	Chloroacetonitrile	8/6/2019	0	Y	y	v				ug/L
EB-8-080519	1925507-06	o-Xylene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
EB-8-080519	1925507-06	p- & m-Xylenes	8/6/2019	0.5	Y	n	u		0.50	0.34	ug/L
EB-8-080519	1925507-06	Tetrahydrofuran	8/6/2019	20	Y	n	u		20	5.2	ug/L
EB-8-080519	1925507-06	Propionitrile	8/6/2019	20	Y	n	u		20	6.2	ug/L
EB-8-080519	1925507-06	Pentachloroethane	8/6/2019	2	Y	n	u		2.0	0.63	ug/L
MW-23-1	1925507-05	1,2,3-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1925507-05	1,1,2-Trichloro-1,2,2-trifluoroethane	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1925507-05	1,2,3-Trichloropropane	8/6/2019	1	Y	n	u		1.0	0.78	ug/L
MW-23-1	1925507-05	Trichlorofluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	Trichloroethene	8/6/2019	0.21	Y	y	v j		0.50	0.19	ug/L
MW-23-1	1925507-05	1,1,2-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1925507-05	1,1,1-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1925507-05	1,2,4-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	Toluene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1925507-05	Tetrachloroethene	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1925507-05	1,1,2,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1925507-05	1,1,1,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1925507-05	1,2,4-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-1	1925507-05	n-Propylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1925507-05	t-Butyl alcohol	8/6/2019	10	Y	n	u		10	9.4	ug/L
MW-23-1	1925507-05	Naphthalene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1925507-05	Methyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	Styrene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-1	1925507-05	Diethyl ether	8/6/2019	2	Y	n	u		2.0	0.33	ug/L
MW-23-1	1925507-05	Methyl methacrylate	8/6/2019	5	Y	n	u		5.0	1.2	ug/L
MW-23-1	1925507-05	Methyl isobutyl ketone	8/6/2019	10	Y	n	u		10	2.4	ug/L
MW-23-1	1925507-05	Methyl iodide	8/6/2019	2	Y	n	u		2.0	1.1	ug/L
MW-23-1	1925507-05	Methyl ethyl ketone	8/6/2019	10	Y	n	u		10	3.3	ug/L
MW-23-1	1925507-05	Methacrylonitrile	8/6/2019	10	Y	n	u		10	2.3	ug/L
MW-23-1	1925507-05	2-Hexanone	8/6/2019	10	Y	n	u		10	5.0	ug/L
MW-23-1	1925507-05	Hexachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1925507-05	Allyl chloride	8/6/2019	5	Y	n	u		5.0	0.47	ug/L
MW-23-1	1925507-05	Ethyl methacrylate	8/6/2019	4	Y	n	u		4.0	1.3	ug/L
MW-23-1	1925507-05	1,3,5-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	trans-1,4-Dichloro-2-butene	8/6/2019	5	Y	n	u		5.0	1.8	ug/L
MW-23-1	1925507-05	Carbon disulfide	8/6/2019	1	Y	n	u		1.0	0.48	ug/L
MW-23-1	1925507-05	1,1-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1925507-05	t-Amyl Methyl ether	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-1	1925507-05	Methylene chloride	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1925507-05	Acrylonitrile	8/6/2019	5	Y	n	u		5.0	1.5	ug/L
MW-23-1	1925507-05	Acetone	8/6/2019	10	Y	n	u		10	6.6	ug/L
MW-23-1	1925507-05	Vinyl chloride	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1925507-05	Ethyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.32	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-1	1925507-05	sec-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1925507-05	Dibromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1925507-05	4-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-1	1925507-05	2-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	Chloromethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1925507-05	Chloroform	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	Chloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1925507-05	Chlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	trans-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1925507-05	tert-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1925507-05	Dibromomethane	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-1	1925507-05	n-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	Bromomethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1925507-05	Bromoform	8/6/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-1	1925507-05	Bromodichloromethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1925507-05	Bromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1925507-05	Bromobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	Benzene	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-1	1925507-05	Carbon tetrachloride	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1925507-05	cis-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1925507-05	Isopropylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	Hexachlorobutadiene	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-1	1925507-05	Ethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	cis-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	Tetrahydrofuran	8/6/2019	20	Y	n	u		20	5.2	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-1	1925507-05	2,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-1	1925507-05	1,3-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1925507-05	1,2-Dibromo-3-chloropropane	8/6/2019	1	Y	n	u		1.0	0.89	ug/L
MW-23-1	1925507-05	trans-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1925507-05	1,2-Dibromoethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-1	1925507-05	1,1-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-1	1925507-05	1,2-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-1	1925507-05	1,1-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	Dichlorodifluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	1,4-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	1,3-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-1	1925507-05	1,2-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-1	1925507-05	p-Isopropyltoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-1	1925507-05	1,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-1	1925507-05	2-Nitropropane	8/6/2019	0	Y	y	v				ug/L
MW-23-1	1925507-05	p- & m-Xylenes	8/6/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-1	1925507-05	o-Xylene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-1	1925507-05	Chloroacetonitrile	8/6/2019	0	Y	y	v				ug/L
MW-23-1	1925507-05	1-Chlorobutane	8/6/2019	0	Y	y	v				ug/L
MW-23-1	1925507-05	1,1-Dichloropropanone	8/6/2019	0	Y	y	v				ug/L
MW-23-1	1925507-05	Methyl acrylate	8/6/2019	0	Y	y	v				ug/L
MW-23-1	1925507-05	Nitrobenzene	8/6/2019	0	Y	y	v				ug/L
MW-23-1	1925507-05	Propionitrile	8/6/2019	20	Y	n	u		20	6.2	ug/L
MW-23-1	1925507-05	Pentachloroethane	8/6/2019	2	Y	n	u		2.0	0.63	ug/L
MW-23-2	1925507-04	1,1,2-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1925507-04	Trichloroethene	8/6/2019	3	Y	y	v		0.50	0.19	ug/L
MW-23-2	1925507-04	Trichlorofluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	1,2,3-Trichloropropane	8/6/2019	1	Y	n	u		1.0	0.78	ug/L
MW-23-2	1925507-04	1,1,2-Trichloro-1,2,2-trifluoroethane	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1925507-04	1,1,1-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1925507-04	1,3,5-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	1,2,4-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1925507-04	1,2,4-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1925507-04	1,2,3-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1925507-04	Toluene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1925507-04	Vinyl chloride	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1925507-04	1,1,2,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1925507-04	Carbon disulfide	8/6/2019	1	Y	n	u		1.0	0.48	ug/L
MW-23-2	1925507-04	1,1,1,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1925507-04	Styrene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1925507-04	n-Propylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-2	1925507-04	Tetrachloroethene	8/6/2019	0.48	Y	y	v j		0.50	0.23	ug/L
MW-23-2	1925507-04	Ethyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-2	1925507-04	Methyl methacrylate	8/6/2019	5	Y	n	u		5.0	1.2	ug/L
MW-23-2	1925507-04	Methyl isobutyl ketone	8/6/2019	10	Y	n	u		10	2.4	ug/L
MW-23-2	1925507-04	Methyl iodide	8/6/2019	2	Y	n	u		2.0	1.1	ug/L
MW-23-2	1925507-04	Methyl ethyl ketone	8/6/2019	10	Y	n	u		10	3.3	ug/L
MW-23-2	1925507-04	Methacrylonitrile	8/6/2019	10	Y	n	u		10	2.3	ug/L
MW-23-2	1925507-04	2-Hexanone	8/6/2019	10	Y	n	u		10	5.0	ug/L
MW-23-2	1925507-04	Hexachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1925507-04	Benzene	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1925507-04	t-Amyl Methyl ether	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1925507-04	Bromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1925507-04	Acetone	8/6/2019	10	Y	n	u		10	6.6	ug/L
MW-23-2	1925507-04	Ethyl methacrylate	8/6/2019	4	Y	n	u		4.0	1.3	ug/L
MW-23-2	1925507-04	Diethyl ether	8/6/2019	2	Y	n	u		2.0	0.33	ug/L
MW-23-2	1925507-04	trans-1,4-Dichloro-2-butene	8/6/2019	5	Y	n	u		5.0	1.8	ug/L
MW-23-2	1925507-04	Isopropylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	t-Butyl alcohol	8/6/2019	10	Y	n	u		10	9.4	ug/L
MW-23-2	1925507-04	Naphthalene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1925507-04	Allyl chloride	8/6/2019	5	Y	n	u		5.0	0.47	ug/L
MW-23-2	1925507-04	Acrylonitrile	8/6/2019	5	Y	n	u		5.0	1.5	ug/L
MW-23-2	1925507-04	Bromobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1925507-04	Chlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	Dibromomethane	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-2	1925507-04	1,2-Dibromoethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1925507-04	1,2-Dibromo-3-chloropropane	8/6/2019	1	Y	n	u		1.0	0.89	ug/L
MW-23-2	1925507-04	Dibromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-2	1925507-04	4-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-2	1925507-04	2-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	Chloromethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-2	1925507-04	p-Isopropyltoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	Chloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1925507-04	1,4-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1925507-04	Carbon tetrachloride	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1925507-04	tert-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1925507-04	sec-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1925507-04	n-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1925507-04	Bromomethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1925507-04	Bromoform	8/6/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-2	1925507-04	Bromodichloromethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1925507-04	Chloroform	8/6/2019	0.65	Y	y	v		0.50	0.14	ug/L
MW-23-2	1925507-04	1,3-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1925507-04	Methylene chloride	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1925507-04	p- & m-Xylenes	8/6/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-2	1925507-04	Pentachloroethane	8/6/2019	2	Y	n	u		2.0	0.63	ug/L
MW-23-2	1925507-04	Hexachlorobutadiene	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-2	1925507-04	Ethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1925507-04	trans-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1925507-04	cis-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	1,2-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-2	1925507-04	2,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-2	1925507-04	1,3-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-2	1925507-04	1,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-2	1925507-04	trans-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1925507-04	cis-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1925507-04	1,1-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-2	1925507-04	1,2-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-2	1925507-04	1,1-Dichloroethane	8/6/2019	0.22	Y	y	v j		0.50	0.15	ug/L
MW-23-2	1925507-04	Dichlorodifluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-2	1925507-04	Methyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-2	1925507-04	1,1-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-2	1925507-04	Tetrahydrofuran	8/6/2019	20	Y	n	u		20	5.2	ug/L
MW-23-2	1925507-04	Propionitrile	8/6/2019	20	Y	n	u		20	6.2	ug/L
MW-23-2	1925507-04	2-Nitropropane	8/6/2019	0	Y	y	v				ug/L
MW-23-2	1925507-04	Nitrobenzene	8/6/2019	0	Y	y	v				ug/L
MW-23-2	1925507-04	Methyl acrylate	8/6/2019	0	Y	y	v				ug/L
MW-23-2	1925507-04	1,1-Dichloropropanone	8/6/2019	0	Y	y	v				ug/L
MW-23-2	1925507-04	Chloroacetonitrile	8/6/2019	0	Y	y	v				ug/L
MW-23-2	1925507-04	o-Xylene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-2	1925507-04	1-Chlorobutane	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	Toluene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	1,3,5-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	1,2,4-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	1,1,2-Trichloro-1,2,2-trifluoroethane	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1925507-03	1,2,3-Trichloropropane	8/6/2019	1	Y	n	u		1.0	0.78	ug/L
MW-23-3	1925507-03	Trichlorofluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	Trichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1925507-03	1,1,2-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1925507-03	1,1,1-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1925507-03	Tetrachloroethene	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1925507-03	1,2,3-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1925507-03	Vinyl chloride	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1925507-03	n-Propylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1925507-03	t-Butyl alcohol	8/6/2019	10	Y	n	u		10	9.4	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1925507-03	1,1,2,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	1,1,1,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1925507-03	Styrene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
MW-23-3	1925507-03	1,2,4-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	Ethyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.32	ug/L
MW-23-3	1925507-03	Tetrahydrofuran	8/6/2019	20	Y	n	u		20	5.2	ug/L
MW-23-3	1925507-03	Propionitrile	8/6/2019	20	Y	n	u		20	6.2	ug/L
MW-23-3	1925507-03	Pentachloroethane	8/6/2019	2	Y	n	u		2.0	0.63	ug/L
MW-23-3	1925507-03	Methyl methacrylate	8/6/2019	5	Y	n	u		5.0	1.2	ug/L
MW-23-3	1925507-03	Methyl isobutyl ketone	8/6/2019	10	Y	n	u		10	2.4	ug/L
MW-23-3	1925507-03	Methyl iodide	8/6/2019	2	Y	n	u		2.0	1.1	ug/L
MW-23-3	1925507-03	Methyl ethyl ketone	8/6/2019	10	Y	n	u		10	3.3	ug/L
MW-23-3	1925507-03	Methacrylonitrile	8/6/2019	10	Y	n	u		10	2.3	ug/L
MW-23-3	1925507-03	Allyl chloride	8/6/2019	5	Y	n	u		5.0	0.47	ug/L
MW-23-3	1925507-03	Hexachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1925507-03	Acetone	8/6/2019	10	Y	n	u		10	6.6	ug/L
MW-23-3	1925507-03	Ethyl methacrylate	8/6/2019	4	Y	n	u		4.0	1.3	ug/L
MW-23-3	1925507-03	Diethyl ether	8/6/2019	2	Y	n	u		2.0	0.33	ug/L
MW-23-3	1925507-03	trans-1,4-Dichloro-2-butene	8/6/2019	5	Y	n	u		5.0	1.8	ug/L
MW-23-3	1925507-03	Carbon disulfide	8/6/2019	1	Y	n	u		1.0	0.48	ug/L
MW-23-3	1925507-03	Ethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	t-Amyl Methyl ether	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1925507-03	Naphthalene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1925507-03	Acrylonitrile	8/6/2019	5	Y	n	u		5.0	1.5	ug/L
MW-23-3	1925507-03	2-Hexanone	8/6/2019	10	Y	n	u		10	5.0	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1925507-03	tert-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1925507-03	Isopropylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	Dibromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1925507-03	4-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.093	ug/L
MW-23-3	1925507-03	2-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	Chloromethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1925507-03	Chloroform	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	Chloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	1,2-Dibromoethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
MW-23-3	1925507-03	Carbon tetrachloride	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	Dibromomethane	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
MW-23-3	1925507-03	sec-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1925507-03	n-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	Bromomethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1925507-03	Bromoform	8/6/2019	0.5	Y	n	u		0.50	0.46	ug/L
MW-23-3	1925507-03	Bromodichloromethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
MW-23-3	1925507-03	Bromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1925507-03	Bromobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	Benzene	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
MW-23-3	1925507-03	Chlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	trans-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	Methylene chloride	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1925507-03	p-Isopropyltoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	p- & m-Xylenes	8/6/2019	0.5	Y	n	u		0.50	0.34	ug/L
MW-23-3	1925507-03	Hexachlorobutadiene	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
MW-23-3	1925507-03	trans-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1925507-03	cis-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	2,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
MW-23-3	1925507-03	1,2-Dibromo-3-chloropropane	8/6/2019	1	Y	n	u		1.0	0.89	ug/L
MW-23-3	1925507-03	1,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	Methyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
MW-23-3	1925507-03	cis-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1925507-03	1,1-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
MW-23-3	1925507-03	1,2-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
MW-23-3	1925507-03	1,1-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	Dichlorodifluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	1,4-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
MW-23-3	1925507-03	1,3-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
MW-23-3	1925507-03	1,2-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
MW-23-3	1925507-03	1,3-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
MW-23-3	1925507-03	1,1-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
MW-23-3	1925507-03	Chloroacetonitrile	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	1-Chlorobutane	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	1,1-Dichloropropanone	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	Methyl acrylate	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	Nitrobenzene	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	2-Nitropropane	8/6/2019	0	Y	y	v				ug/L
MW-23-3	1925507-03	o-Xylene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-3-080519	1925507-07	4-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.093	ug/L
SB-3-080519	1925507-07	2-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-3-080519	1925507-07	Chloroform	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	Chlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	Carbon tetrachloride	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	Dibromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
SB-3-080519	1925507-07	sec-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-3-080519	1925507-07	1,4-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	n-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	tert-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-3-080519	1925507-07	1,2-Dibromo-3-chloropropane	8/6/2019	1	Y	n	u		1.0	0.89	ug/L
SB-3-080519	1925507-07	1,2-Dibromoethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
SB-3-080519	1925507-07	Dibromomethane	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
SB-3-080519	1925507-07	Bromomethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-3-080519	1925507-07	1,3-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
SB-3-080519	1925507-07	Benzene	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-3-080519	1925507-07	Dichlorodifluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	1,1-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	1,2-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	1,1-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-3-080519	1925507-07	1,2-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-3-080519	1925507-07	p- & m-Xylenes	8/6/2019	0.5	Y	n	u		0.50	0.34	ug/L
SB-3-080519	1925507-07	Methyl isobutyl ketone	8/6/2019	10	Y	n	u		10	2.4	ug/L
SB-3-080519	1925507-07	Methyl methacrylate	8/6/2019	5	Y	n	u		5.0	1.2	ug/L
SB-3-080519	1925507-07	Pentachloroethane	8/6/2019	2	Y	n	u		2.0	0.63	ug/L
SB-3-080519	1925507-07	2-Nitropropane	8/6/2019	0	Y	y	v				ug/L
SB-3-080519	1925507-07	Nitrobenzene	8/6/2019	0	Y	y	v				ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-3-080519	1925507-07	Methyl acrylate	8/6/2019	0	Y	y	v				ug/L
SB-3-080519	1925507-07	1,1-Dichloropropanone	8/6/2019	0	Y	y	v				ug/L
SB-3-080519	1925507-07	1-Chlorobutane	8/6/2019	0	Y	y	v				ug/L
SB-3-080519	1925507-07	Bromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-3-080519	1925507-07	o-Xylene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-3-080519	1925507-07	Bromoform	8/6/2019	0.5	Y	n	u		0.50	0.46	ug/L
SB-3-080519	1925507-07	Methyl iodide	8/6/2019	2	Y	n	u		2.0	1.1	ug/L
SB-3-080519	1925507-07	Methyl ethyl ketone	8/6/2019	10	Y	n	u		10	3.3	ug/L
SB-3-080519	1925507-07	Tetrahydrofuran	8/6/2019	20	Y	n	u		20	5.2	ug/L
SB-3-080519	1925507-07	Propionitrile	8/6/2019	20	Y	n	u		20	6.2	ug/L
SB-3-080519	1925507-07	Chloromethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-3-080519	1925507-07	Bromobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	cis-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
SB-3-080519	1925507-07	Bromodichloromethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-3-080519	1925507-07	Chloroacetonitrile	8/6/2019	0	Y	y	v				ug/L
SB-3-080519	1925507-07	t-Amyl Methyl ether	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-3-080519	1925507-07	1,1,2-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-3-080519	1925507-07	Trichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-3-080519	1925507-07	Trichlorofluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	1,2,3-Trichloropropane	8/6/2019	1	Y	n	u		1.0	0.78	ug/L
SB-3-080519	1925507-07	1,1,2-Trichloro-1,2,2-trifluoroethane	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-3-080519	1925507-07	1,2,4-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	1,3,5-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	Vinyl chloride	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-3-080519	1925507-07	Acetone	8/6/2019	10	Y	n	u		10	6.6	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-3-080519	1925507-07	1,1,1-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-3-080519	1925507-07	Allyl chloride	8/6/2019	5	Y	n	u		5.0	0.47	ug/L
SB-3-080519	1925507-07	Diethyl ether	8/6/2019	2	Y	n	u		2.0	0.33	ug/L
SB-3-080519	1925507-07	t-Butyl alcohol	8/6/2019	10	Y	n	u		10	9.4	ug/L
SB-3-080519	1925507-07	Carbon disulfide	8/6/2019	1	Y	n	u		1.0	0.48	ug/L
SB-3-080519	1925507-07	trans-1,4-Dichloro-2-butene	8/6/2019	5	Y	n	u		5.0	1.8	ug/L
SB-3-080519	1925507-07	trans-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	Ethyl methacrylate	8/6/2019	4	Y	n	u		4.0	1.3	ug/L
SB-3-080519	1925507-07	Chloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	Hexachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
SB-3-080519	1925507-07	2-Hexanone	8/6/2019	10	Y	n	u		10	5.0	ug/L
SB-3-080519	1925507-07	Methacrylonitrile	8/6/2019	10	Y	n	u		10	2.3	ug/L
SB-3-080519	1925507-07	Acrylonitrile	8/6/2019	5	Y	n	u		5.0	1.5	ug/L
SB-3-080519	1925507-07	1,1-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-3-080519	1925507-07	Ethyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.32	ug/L
SB-3-080519	1925507-07	1,2,4-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	1,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	2,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
SB-3-080519	1925507-07	cis-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	trans-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-3-080519	1925507-07	Ethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
SB-3-080519	1925507-07	Hexachlorobutadiene	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
SB-3-080519	1925507-07	Isopropylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	p-Isopropyltoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	Methylene chloride	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L

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Analytical Method		EPA-524.2									
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
SB-3-080519	1925507-07	1,1,2,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	Toluene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
SB-3-080519	1925507-07	1,3-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
SB-3-080519	1925507-07	Methyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
SB-3-080519	1925507-07	1,2,3-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
SB-3-080519	1925507-07	Tetrachloroethene	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
SB-3-080519	1925507-07	1,1,1,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
SB-3-080519	1925507-07	Styrene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-3-080519	1925507-07	n-Propylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
SB-3-080519	1925507-07	Naphthalene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-10-080519	1925507-01	1,3-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-10-080519	1925507-01	2,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-10-080519	1925507-01	1,2-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-10-080519	1925507-01	Dichlorodifluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	1,1-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	Dibromomethane	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-10-080519	1925507-01	1,2-Dichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	1,1-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-10-080519	1925507-01	1,4-Dichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	cis-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-10-080519	1925507-01	trans-1,2-Dichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	1,3-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-10-080519	1925507-01	1,1-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-10-080519	1925507-01	cis-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	1,2-Dibromoethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-10-080519	1925507-01	n-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	Ethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	trans-1,3-Dichloropropene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-10-080519	1925507-01	1,2-Dichloropropane	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	Carbon tetrachloride	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	Hexachlorobutadiene	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-10-080519	1925507-01	p- & m-Xylenes	8/6/2019	0.5	Y	n	u		0.50	0.34	ug/L
TB-10-080519	1925507-01	Benzene	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-10-080519	1925507-01	Bromobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	Bromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.27	ug/L
TB-10-080519	1925507-01	Bromodichloromethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-10-080519	1925507-01	Bromoform	8/6/2019	0.5	Y	n	u		0.50	0.46	ug/L
TB-10-080519	1925507-01	tert-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-10-080519	1925507-01	sec-Butylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-10-080519	1925507-01	1,2-Dibromo-3-chloropropane	8/6/2019	1	Y	n	u		1.0	0.89	ug/L
TB-10-080519	1925507-01	Chlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	Chloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	Chloroform	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	Chloromethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-10-080519	1925507-01	2-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	4-Chlorotoluene	8/6/2019	0.5	Y	n	u		0.50	0.093	ug/L
TB-10-080519	1925507-01	Dibromochloromethane	8/6/2019	0.5	Y	n	u		0.50	0.22	ug/L
TB-10-080519	1925507-01	Bromomethane	8/6/2019	0.5	Y	n	u		0.50	0.20	ug/L
TB-10-080519	1925507-01	Methyl isobutyl ketone	8/6/2019	10	Y	n	u		10	2.4	ug/L
TB-10-080519	1925507-01	t-Butyl alcohol	8/6/2019	10	Y	n	u		10	9.4	ug/L

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Report	Detect	Lab Qual	Val Qual	RL	MDL	Units
TB-10-080519	1925507-01	Carbon disulfide	8/6/2019	1	Y	n	u		1.0	0.48	ug/L
TB-10-080519	1925507-01	trans-1,4-Dichloro-2-butene	8/6/2019	5	Y	n	u		5.0	1.8	ug/L
TB-10-080519	1925507-01	Diethyl ether	8/6/2019	2	Y	n	u		2.0	0.33	ug/L
TB-10-080519	1925507-01	Ethyl methacrylate	8/6/2019	4	Y	n	u		4.0	1.3	ug/L
TB-10-080519	1925507-01	Ethyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.32	ug/L
TB-10-080519	1925507-01	Hexachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.11	ug/L
TB-10-080519	1925507-01	2-Hexanone	8/6/2019	10	Y	n	u		10	5.0	ug/L
TB-10-080519	1925507-01	Methacrylonitrile	8/6/2019	10	Y	n	u		10	2.3	ug/L
TB-10-080519	1925507-01	Propionitrile	8/6/2019	20	Y	n	u		20	6.2	ug/L
TB-10-080519	1925507-01	Methyl iodide	8/6/2019	2	Y	n	u		2.0	1.1	ug/L
TB-10-080519	1925507-01	Acrylonitrile	8/6/2019	5	Y	n	u		5.0	1.5	ug/L
TB-10-080519	1925507-01	Methyl methacrylate	8/6/2019	5	Y	n	u		5.0	1.2	ug/L
TB-10-080519	1925507-01	Pentachloroethane	8/6/2019	2	Y	n	u		2.0	0.63	ug/L
TB-10-080519	1925507-01	Tetrahydrofuran	8/6/2019	20	Y	n	u		20	5.2	ug/L
TB-10-080519	1925507-01	o-Xylene	8/6/2019	0.5	Y	n	u		0.50	0.13	ug/L
TB-10-080519	1925507-01	Chloroacetonitrile	8/6/2019	0	Y	y	v				ug/L
TB-10-080519	1925507-01	1-Chlorobutane	8/6/2019	0	Y	y	v				ug/L
TB-10-080519	1925507-01	1,1-Dichloropropanone	8/6/2019	0	Y	y	v				ug/L
TB-10-080519	1925507-01	Methyl acrylate	8/6/2019	0	Y	y	v				ug/L
TB-10-080519	1925507-01	Nitrobenzene	8/6/2019	0	Y	y	v				ug/L
TB-10-080519	1925507-01	2-Nitropropane	8/6/2019	0	Y	y	v				ug/L
TB-10-080519	1925507-01	Methyl ethyl ketone	8/6/2019	10	Y	n	u		10	3.3	ug/L
TB-10-080519	1925507-01	1,1,1-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-10-080519	1925507-01	p-Isopropyltoluene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	Methylene chloride	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L

SDG: 1925507

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-10-080519	1925507-01	Methyl t-butyl ether	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	Naphthalene	8/6/2019	0.5	Y	n	u		0.50	0.16	ug/L
TB-10-080519	1925507-01	n-Propylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-10-080519	1925507-01	Styrene	8/6/2019	0.5	Y	n	u		0.50	0.12	ug/L
TB-10-080519	1925507-01	1,1,1,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-10-080519	1925507-01	1,1,2,2-Tetrachloroethane	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	Tetrachloroethene	8/6/2019	0.5	Y	n	u		0.50	0.23	ug/L
TB-10-080519	1925507-01	Toluene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	t-Amyl Methyl ether	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-10-080519	1925507-01	1,2,4-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.15	ug/L
TB-10-080519	1925507-01	Allyl chloride	8/6/2019	5	Y	n	u		5.0	0.47	ug/L
TB-10-080519	1925507-01	1,1,2-Trichloroethane	8/6/2019	0.5	Y	n	u		0.50	0.21	ug/L
TB-10-080519	1925507-01	Trichloroethene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-10-080519	1925507-01	Trichlorofluoromethane	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	1,2,3-Trichloropropane	8/6/2019	1	Y	n	u		1.0	0.78	ug/L
TB-10-080519	1925507-01	1,1,2-Trichloro-1,2,2-trifluoroethane	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L
TB-10-080519	1925507-01	1,2,4-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.17	ug/L
TB-10-080519	1925507-01	1,3,5-Trimethylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	Vinyl chloride	8/6/2019	0.5	Y	n	u		0.50	0.18	ug/L
TB-10-080519	1925507-01	Acetone	8/6/2019	10	Y	n	u		10	6.6	ug/L
TB-10-080519	1925507-01	Isopropylbenzene	8/6/2019	0.5	Y	n	u		0.50	0.14	ug/L
TB-10-080519	1925507-01	1,2,3-Trichlorobenzene	8/6/2019	0.5	Y	n	u		0.50	0.19	ug/L