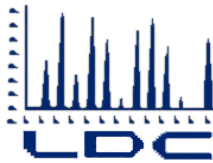


ATTACHMENT 2: DATA VALIDATION REPORTS

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

August 10, 2020

SUBJECT: NASA JPL, 2Q2020, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on July 17, 2020. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #48646:

SDG

2016743, 2016927
2017061, 2017168

Fraction

Volatiles, Semivolatiles, 1,4-Dioxane, Metals, Wet
Chemistry

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

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

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

Sincerely,

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016743

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-1-060920 | 2016743-01 | Water | 06/09/20 |
| MW-4-5 | 2016743-02 | Water | 06/09/20 |
| MW-4-4 | 2016743-03 | Water | 06/09/20 |
| MW-4-3 | 2016743-04 | Water | 06/09/20 |
| MW-4-2 | 2016743-05 | Water | 06/09/20 |
| MW-4-1 | 2016743-06 | Water | 06/09/20 |
| EB-1-060920 | 2016743-07 | Water | 06/09/20 |
| MW-4-4MS | 2016743-03MS | Water | 06/09/20 |
| MW-4-4MSD | 2016743-03MSD | Water | 06/09/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/10/20 | Diethyl ether | 74.0 | All samples in SDG 2016743 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|-----------------------------|--------------|----------------------------|--|--------|
| 06/11/20 (11JUN02) | Bromomethane Naphthalene | 34.8 31.1 | All samples in SDG 2016743 | UJ (all non-detects) UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|---------------|------|-------------------------------|----------------------|--------|
| 06/11/20 (11JUN03) | Methyl iodide | 44.0 | All samples in SDG 2016743 | 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-1-060920 was identified as a trip blank. No contaminants were found.

Sample EB-1-060920 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 ICV %D and continuing calibration %D, data were qualified as estimated in seven samples.

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

NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2016743

| Sample | Compound | Flag | A or P | Reason |
|--|--|--|--------|---------------------------------------|
| TB-1-060920 MW-4-5 MW-4-4 MW-4-3 MW-4-2 MW-4-1 EB-1-060920 | Diethyl ether | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-1-060920 MW-4-5 MW-4-4 MW-4-3 MW-4-2 MW-4-1 EB-1-060920 | Bromomethane Naphthalene Methyl iodide | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2016743

No Sample Data Qualified in this SDG

LDC #: 48646A1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2016743

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/1/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: _____

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

| | Validation Area | | Comments |
|-------|--|-------|------------------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A, SW | RSD ≤ 20%. Y ² CV ≤ 30% |
| IV. | Continuing calibration | SW | CV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB = 1 EB = 7 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | 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-1-060920 | 2016743-01 | Water | 06/09/20 |
| 2 | MW-4-5 | 2016743-02 | Water | 06/09/20 |
| 3 | MW-4-4 | 2016743-03 | Water | 06/09/20 |
| 4 | MW-4-3 | 2016743-04 | Water | 06/09/20 |
| 5 | MW-4-2 | 2016743-05 | Water | 06/09/20 |
| 6 | MW-4-1 | 2016743-06 | Water | 06/09/20 |
| 7 | EB-1-060920 | 2016743-07 | Water | 06/09/20 |
| 8 | MW-4-4MS | 2016743-03MS | Water | 06/09/20 |
| 9 | MW-4-4MSD | 2016743-03MSD | Water | 06/09/20 |
| 10 | | | | |

Notes:

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

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

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Semivolatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016743

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-4-2 | 2016743-05 | Water | 06/09/20 |

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:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) SW 846 Method 8270C

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

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

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered 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

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|----------|---|--|-------------------------------|--|--------|
| 06/15/20 | Benzidine Endosulfan I 2-Naphthylamine cis-Chlordane Famphur 1-Naphthylamine | 56.06873 18.33888 49.74228 32.46043 40.31817 37.88838 | All samples in SDG 2016743 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

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 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|--|--------------------------------------|-------------------------------|--|--|--------|
| 06/16/20 (16JUN003) | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | 25.2 27.2 25.9 20.8 33.4 | All samples in SDG 2016743 | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|-----------------------------|------------|-------------------------------|-----------------------------|----------------------|--------|
| 06/16/20 (16JUN004) | Aramite | 20.9 | All samples in SDG 2016743 | Aramite | UJ (all non-detects) | A |
| | p-(Dimethylamino)azobenzene | 23.9 | | p-(Dimethylamino)azobenzene | UJ (all non-detects) | |
| | Disulfoton | 22.6 | | Disulfoton | UJ (all non-detects) | |
| | Ethyl methacrylate | 31.2 | | Ethyl methacrylate | UJ (all non-detects) | |
| | Ethyl Parathion | 23.9 | | Ethyl Parathion | UJ (all non-detects) | |
| | Methyl parathion | 26.3 | | Methyl parathion | UJ (all non-detects) | |
| | 1,4-Naphthoquinone | 33.7 | | 1,4-Naphthoquinone | UJ (all non-detects) | |
| | Hexachlorophene | 36.1 | | Hexachlorophene | UJ (all non-detects) | |
| | PCB-1260 | 22.7 | | PCB-1260 | UJ (all non-detects) | |
| | | | | PCB-1016 | UJ (all non-detects) | |
| | | | | PCB-1221 | UJ (all non-detects) | |
| | | | | PCB-1232 | UJ (all non-detects) | |
| | | | | PCB-1242 | UJ (all non-detects) | |
| | | | | PCB-1248 | UJ (all non-detects) | |
| | | PCB-1254 | UJ (all non-detects) | | | |
| | | PCB-1262 | UJ (all non-detects) | | | |
| | | PCB-1268 | UJ (all non-detects) | | | |
| | | Total PCBs | UJ (all non-detects) | | | |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Affected Compound | Flag | A or P |
|--------|--------------------|-----------------------|--|------|--------|
| MW-4-2 | Perylene-d12 | 399327 (73853-295412) | Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene 3-Methylcholanthrene | NA | - |

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 initial calibration %RSD, ICV %D, data were qualified as estimated in one sample.

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

LDC #: 48646A2a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/1/20

SDG #: 2016743

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: V

2nd Reviewer:

METHOD: GC/MS Semivolatiles (EPA SW846 Method 8270C)

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

| | Validation Area | | Comments |
|-------|--|---------------------------|---|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A N | $RSD \leq 39/15/70$ r^2 $ICV \leq 20/0$ |
| IV. | Continuing calibration | A N | $CDV \leq 20/0$ |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | es |
| IX. | Laboratory control samples | A N | LCs |
| X. | Field duplicates | N | |
| XI. | Internal standards | W | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-4-2 | 2016743-05 | Water | 06/09/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
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Notes:

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VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

| | | | | |
|---------------------------------|---------------------------------|----------------------------------|---|--|
| A. Phenol | CC. Dimethylphthalate | EEE. Bis(2-ethylhexyl)phthalate | GGGG. C30-Hopane | I1. Methyl methanesulfonate |
| B. Bis (2-chloroethyl) ether | DD. Acenaphthylene | FFF. Di-n-octylphthalate | HHHH. 1-Methylphenanthrene | J1. Ethyl methanesulfonate |
| C. 2-Chlorophenol | EE. 2,6-Dinitrotoluene | GGG. Benzo(b)fluoranthene | IIII. 1,4-Dioxane | K1. o,o',o''-Triethylphosphorothioate |
| D. 1,3-Dichlorobenzene | FF. 3-Nitroaniline | HHH. Benzo(k)fluoranthene | JJJJ. Acetophenone | L1. n-Phenylene diamine |
| E. 1,4-Dichlorobenzene | GG. Acenaphthene | III. Benzo(a)pyrene | KKKK. Atrazine | M1. 1,4-Naphthoquinone |
| F. 1,2-Dichlorobenzene | HH. 2,4-Dinitrophenol | JJJ. Indeno(1,2,3-cd)pyrene | LLLL. Benzaldehyde | N1. N-Nitro-o-toluidine |
| G. 2-Methylphenol | II. 4-Nitrophenol | KKK. Dibenz(a,h)anthracene | MMMM. Caprolactam | O1. 1,3,5-Trinitrobenzene |
| H. 2,2'-Oxybis(1-chloropropane) | JJ. Dibenzofuran | LLL. Benzo(g,h,i)perylene | NNNN. 2,6-Dichlorophenol | P1. Pentachlorobenzene |
| I. 4-Methylphenol | KK. 2,4-Dinitrotoluene | MMM. Bis(2-Chloroisopropyl)ether | OOOO. 1,2-Diphenylhydrazine | Q1. 4-Aminobiphenyl |
| J. N-Nitroso-di-n-propylamine | LL. Diethylphthalate | NNN. Aniline | PPPP. 3-Methylphenol | R1. 2-Naphthylamine |
| K. Hexachloroethane | MM. 4-Chlorophenyl-phenyl ether | OOO. N-Nitrosodimethylamine | QQQQ. 3&4-Methylphenol | S1. Triphenylene |
| L. Nitrobenzene | NN. Fluorene | PPP. Benzoic Acid | RRRR. 4-Dimethyldibenzothiophene (4MDT) | T1. Octachlorostyrene |
| M. Isophorone | OO. 4-Nitroaniline | QQQ. Benzyl alcohol | SSSS. 2/3-Dimethyldibenzothiophene (4MDT) | U1. Famphur |
| N. 2-Nitrophenol | PP. 4,6-Dinitro-2-methylphenol | RRR. Pyridine | TTTT. 1-Methyldibenzothiophene (1MDT) | V1. 1,4-phenylenediamine |
| O. 2,4-Dimethylphenol | QQ. N-Nitrosodiphenylamine | SSS. Benzidine | UUUU.. 2,3,4,6-Tetrachlorophenol | W1. Methapyrilene |
| P. Bis(2-chloroethoxy)methane | RR. 4-Bromophenyl-phenylether | TTT. 1-Methylnaphthalene | VVVV. 1,2,4,5-Tetrachlorobenzene | X1. Pentachloroethane |
| Q. 2,4-Dichlorophenol | SS. Hexachlorobenzene | UUU. Benzo(b)thiophene | WWWW.. 2-Picoline | Y1. 3,3'-Dimethylbenzidine |
| R. 1,2,4-Trichlorobenzene | TT. Pentachlorophenol | VVV. Benzonaphthothiophene | XXXX. 3-Methylcholanthrene | Z1. o-Toluidine |
| S. Naphthalene | UU. Phenanthrene | WWW. Benzo(e)pyrene | YYYY. a,a-Dimethylphenethylamine | A2. 1-Naphthylamine |
| T. 4-Chloroaniline | VV. Anthracene | XXX. 2,6-Dimethylnaphthalene | ZZZZ. Hexachloropropene | B2. 4-Aminobiphenyl |
| U. Hexachlorobutadiene | WW. Carbazole | YYY. 2,3,5-Trimethylnaphthalene | A1. N-Nitrosodiethylamine | C2. 4-Nitroquinoline-1-oxide |
| V. 4-Chloro-3-methylphenol | XX. Di-n-butylphthalate | ZZZ. Perylene | B1. N-Nitrosodi-n-butylamine | D2. Hexachloropene |
| W. 2-Methylnaphthalene | YY. Fluoranthene | AAAA. Dibenzothiophene | C1. N-Nitrosomethylethylamine | E2. Bis (2-chloro-1-methylethyl) ether |
| X. Hexachlorocyclopentadiene | ZZ. Pyrene | BBBB. Benzo(a)fluoranthene | D1. N-Nitrosomorpholine | F2. Bifenthrin |
| Y. 2,4,6-Trichlorophenol | AAA. Butylbenzylphthalate | CCCC. Benzo(b)fluorene | E1. N-Nitrosopyrrolidine | G2. Cyfluthrin |
| Z. 2,4,5-Trichlorophenol | BBB. 3,3'-Dichlorobenzidine | DDDD. cis/trans-Decalin | F1. Phenacetin | H2. Cypermethrin |
| AA. 2-Chloronaphthalene | CCC. Benzo(a)anthracene | EEEE. Biphenyl | G1. 2-Acetylamino fluorene | I2. Permethrin (cis/trans) |
| BB. 2-Nitroaniline | DDD. Chrysene | FFFF. Retene | H1. Pronamide | J2. 5-Nitro-o-toluidine |

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

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

- N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?
- Y/N N/A Were all %D within the validation criteria of $\leq 30\%$ %D ?

| # | Date | Standard ID | Compound | Finding %D (Limit: $\leq 30.0\%$) | Associated Samples | Qualifications |
|---|---------|-------------|-----------------------------|---------------------------------------|--------------------|--|
| | 6/16/20 | 16JUN003 | SSS | 25.2 | All (ND) | J/U/J/A |
| | | | H | 27.2 | | |
| | | | BBB | 25.9 | | |
| | | | Heptachlor | 20.8 | | |
| | | | R1 | 33.4 | | |
| | 6/16/20 | 16JUN004 | Aramite | 20.9 | | |
| | | | p-(Dimethylamino)azobenzene | 23.9 | | |
| | | | Disilfoton | 22.6 | | |
| | | | Ethyl methacrylate | 31.2 | | |
| | | | Ethyl Parathion | 23.9 | | |
| | | | Methyl parathion | 26.3 | | |
| | | | M1 | 33.7 | | |
| | | | Hexachlorophene | 36.1 | | |
| | | | PCB-1260 | 27.7 | | |
| | | | | | | (qual: PCB-1016, 1221,1232,1242, 1248,1254,1260,1262,1268, and Total PCBS) |
| | | | | | | |
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Semi-Volatile Internal Standards

| 1,4-Dichlorobenzene-d4 (DCB) | Naphthalene-d8 (NPT) | Acenaphthene-d10 (ANT) |
|---|---|---|
| Phenol Bis(2-chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol Bis(2-chloroisopropyl)ether 3+4-Methylphenol N-Nitroso-d-n-propylamine Hexachoroethane N-Nitrosodimethylamine | Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methynaphthalene 1,2,4-Trichlorobenzene Benzoic acid | 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether Fluorene 4-Nitroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol |
| Phenanthrene-d10 (PHN) | Chrysene-d12 (CRY) | Perylene-d12 (PRY) |
| N-Nitrosodiphenylamine 4-Bromophenyl-phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene 4,6-Dinitro-2-methylphenol | Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate | Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene 3-Methylcholanthrene |

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

Project/Site Name: NASA JPL, 2Q2020
LDC Report Date: August 6, 2020
Parameters: 1,4-Dioxane
Validation Level: Level III
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 2016743

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-4-1 | 2016743-06 | Water | 06/09/20 |

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 15.0%.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

NASA JPL, 2Q2020
1,4-Dioxane - Data Qualification Summary - SDG 2016743

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 2016743

No Sample Data Qualified in this SDG

LDC #: 48646A2c
 SDG #: 2016743
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 7/2/20
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: _____

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

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

| | Validation Area | | Comments |
|-------|--|-----|-----------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A/A | RSD ≤ 15% . 1CV = 20% |
| IV. | Continuing calibration | A | 2CV = 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-4-1 | 2016743-06 | Water | 06/09/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016743

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-4-5 | 2016743-02 | Water | 06/09/20 |
| MW-4-4 | 2016743-03 | Water | 06/09/20 |
| MW-4-3 | 2016743-04 | Water | 06/09/20 |
| MW-4-2 | 2016743-05 | Water | 06/09/20 |
| MW-4-1 | 2016743-06 | Water | 06/09/20 |
| EB-1-060920 | 2016743-07 | Water | 06/09/20 |
| MW-4-5MS | 2016743-02MS | Water | 06/09/20 |
| MW-4-5MSD | 2016743-02MSD | Water | 06/09/20 |
| MW-4-5DUP | 2016743-02DUP | Water | 06/09/20 |

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

VI. Field Blanks

Sample EB-1-060920 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Collection Date | Analyte | Concentration |
|-------------|-----------------|---------|---------------|
| EB-1-060920 | 06/09/20 | Sodium | 0.076 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2016743

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2016743

No Sample Data Qualified in this SDG

METHOD: Metals(EPA Method 200.7/200.8)

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

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

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

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-4-5 | 2016743-02 | Water | 06/09/20 |
| 2 | MW-4-4 | 2016743-03 | Water | 06/09/20 |
| 3 | MW-4-3 | 2016743-04 | Water | 06/09/20 |
| 4 | MW-4-2 | 2016743-05 | Water | 06/09/20 |
| 5 | MW-4-1 | 2016743-06 | Water | 06/09/20 |
| 6 | EB-1-060920 | 2016743-07 | Water | 06/09/20 |
| 7 | MW-4-5MS | 2016743-02MS | Water | 06/09/20 |
| 8 | MW-4-5MSD | 2016743-02MSD | Water | 06/09/20 |
| 9 | MW-4-5DUP | 2016743-02DUP | Water | 06/09/20 |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016743

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-4-5 | 2016743-02 | Water | 06/09/20 |
| MW-4-4 | 2016743-03 | Water | 06/09/20 |
| MW-4-3 | 2016743-04 | Water | 06/09/20 |
| MW-4-2 | 2016743-05 | Water | 06/09/20 |
| MW-4-1 | 2016743-06 | Water | 06/09/20 |
| EB-1-060920 | 2016743-07 | Water | 06/09/20 |
| MW-4-5MS | 2016743-02MS | Water | 06/09/20 |
| MW-4-5MSD | 2016743-02MSD | Water | 06/09/20 |
| MW-4-5DUP | 2016743-02DUP | Water | 06/09/20 |
| MW-4-2MS | 2016743-05MS | Water | 06/09/20 |
| MW-4-2MSD | 2016743-05MSD | Water | 06/09/20 |
| MW-4-2DUP | 2016743-05DUP | Water | 06/09/20 |
| EB-1-060920DUP | 2016743-07DUP | Water | 06/09/20 |

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|----------------------------|---------|--|---|-----------------|--------|
| All samples in SDG 2016743 | pH | 6 days | 2 days | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-1-060920 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--|------------------------------------|
| EB-1-060920 | pH Total dissolved solids Chloride | 4.59 mg/L 4.7 mg/L 0.24 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

Due to technical holding times, data were qualified as estimated in six samples.

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2016743**

| Sample | Analyte | Flag | A or P | Reason |
|---|---------|-----------------|--------|-------------------------|
| MW-4-5 MW-4-4 MW-4-3 MW-4-2 MW-4-1 EB-1-060920 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2016743**

No Sample Data Qualified in this SDG

LDC #: 48646A6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/4/2020

SDG #: 2016743

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: DM

2nd Reviewer: [Signature]

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|-------|----------|
| I. | Sample receipt/Technical holding times | A, SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | A | |
| V | Field blanks | SW | EB=6 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | N | |
| X. | Sample result verification | N | |
| XI. | Overall assessment of data | A | |

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

| | Client ID | Lab ID | Matrix | Date |
|----|----------------|---------------|--------|----------|
| 1 | MW-4-5 | 2016743-02 | Water | 06/09/20 |
| 2 | MW-4-4 | 2016743-03 | Water | 06/09/20 |
| 3 | MW-4-3 | 2016743-04 | Water | 06/09/20 |
| 4 | MW-4-2 | 2016743-05 | Water | 06/09/20 |
| 5 | MW-4-1 | 2016743-06 | Water | 06/09/20 |
| 6 | EB-1-060920 | 2016743-07 | Water | 06/09/20 |
| 7 | MW-4-5MS | 2016743-02MS | Water | 06/09/20 |
| 8 | MW-4-5MSD | 2016743-02MSD | Water | 06/09/20 |
| 9 | MW-4-5DUP | 2016743-02DUP | Water | 06/09/20 |
| 10 | MW-4-2MS | 2016743-05MS | Water | 06/09/20 |
| 11 | MW-4-2MSD | 2016743-05MSD | Water | 06/09/20 |
| 12 | MW-4-2DUP | 2016743-05DUP | Water | 06/09/20 |
| 13 | EB-1-060920DUP | 2016743-07DUP | Water | 06/09/20 |
| 14 | | | | |
| 15 | | | | |

Notes:

VALIDATION FINDINGS WORKSHEET

Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/11/2020 Soil factor applied NA

Field blank type: (circle one) Field Blank / Rinsate / Other: EB/SB Associated Samples: X flag

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | | |
|----------|----------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| | 6 | | No Qualifiers | | | | | | | | |
| pH | 4.59 | | | | | | | | | | |
| TDS | 4.7 | | | | | | | | | | |
| Chloride | 0.24 | | | | | | | | | | |

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".

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| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-150.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | pH | 6/15/2020 | 4.59 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-4-1 | 2016743-06 | pH | 6/15/2020 | 7.4 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-4-2 | 2016743-05 | pH | 6/15/2020 | 7.48 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-4-3 | 2016743-04 | pH | 6/15/2020 | 7.83 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-4-4 | 2016743-03 | pH | 6/15/2020 | 7.79 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-4-5 | 2016743-02 | pH | 6/15/2020 | 7.87 | Y | y | v | J | 0.05 | 0.05 | pH Units |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|--------------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-160.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | Total Dissolved Solids @ 180 C | 6/12/2020 | 4.7 | Y | y | v j | | 6.7 | 3.3 | mg/L |
| MW-4-1 | 2016743-06 | Total Dissolved Solids @ 180 C | 6/12/2020 | 250 | Y | y | v | | 20 | 10 | mg/L |
| MW-4-2 | 2016743-05 | Total Dissolved Solids @ 180 C | 6/12/2020 | 610 | Y | y | v | | 33 | 17 | mg/L |
| MW-4-3 | 2016743-04 | Total Dissolved Solids @ 180 C | 6/12/2020 | 490 | Y | y | v | | 33 | 17 | mg/L |
| MW-4-4 | 2016743-03 | Total Dissolved Solids @ 180 C | 6/12/2020 | 410 | Y | y | v | | 20 | 10 | mg/L |
| MW-4-5 | 2016743-02 | Total Dissolved Solids @ 180 C | 6/12/2020 | 420 | Y | y | v | | 20 | 10 | mg/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-200.7 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | Total Recoverable Sodium | 6/15/2020 | 0.076 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| EB-1-060920 | 2016743-07 | Total Recoverable Magnesium | 6/15/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| EB-1-060920 | 2016743-07 | Total Recoverable Potassium | 6/15/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| EB-1-060920 | 2016743-07 | Total Recoverable Iron | 6/15/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-1-060920 | 2016743-07 | Total Recoverable Calcium | 6/15/2020 | 0.1 | Y | n | u | | 0.10 | 0.014 | mg/L |
| MW-4-1 | 2016743-06 | Total Recoverable Iron | 6/15/2020 | 560 | Y | y | v | | 50 | 30 | ug/L |
| MW-4-1 | 2016743-06 | Total Recoverable Sodium | 6/15/2020 | 16 | Y | y | v | | 0.50 | 0.051 | mg/L |

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Analytical Method EPA-200.7

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-----------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| MW-4-1 | 2016743-06 | Total Recoverable Magnesium | 6/15/2020 | 14 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-4-1 | 2016743-06 | Total Recoverable Calcium | 6/15/2020 | 46 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-4-1 | 2016743-06 | Total Recoverable Potassium | 6/15/2020 | 2.4 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-4-2 | 2016743-05 | Total Recoverable Calcium | 6/12/2020 | 110 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-4-2 | 2016743-05 | Total Recoverable Magnesium | 6/12/2020 | 37 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-4-2 | 2016743-05 | Total Recoverable Sodium | 6/12/2020 | 33 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-4-2 | 2016743-05 | Total Recoverable Potassium | 6/12/2020 | 2.8 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-4-2 | 2016743-05 | Total Recoverable Iron | 6/12/2020 | 590 | Y | y | v | | 50 | 30 | ug/L |
| MW-4-3 | 2016743-04 | Total Recoverable Calcium | 6/12/2020 | 88 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-4-3 | 2016743-04 | Total Recoverable Magnesium | 6/12/2020 | 29 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-4-3 | 2016743-04 | Total Recoverable Sodium | 6/12/2020 | 35 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-4-3 | 2016743-04 | Total Recoverable Potassium | 6/12/2020 | 2.5 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-4-3 | 2016743-04 | Total Recoverable Iron | 6/12/2020 | 3600 | Y | y | v | | 50 | 30 | ug/L |
| MW-4-4 | 2016743-03 | Total Recoverable Calcium | 6/12/2020 | 68 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-4-4 | 2016743-03 | Total Recoverable Iron | 6/12/2020 | 1200 | Y | y | v | | 50 | 30 | ug/L |
| MW-4-4 | 2016743-03 | Total Recoverable Potassium | 6/12/2020 | 2.2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-4-4 | 2016743-03 | Total Recoverable Magnesium | 6/12/2020 | 23 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-4-4 | 2016743-03 | Total Recoverable Sodium | 6/12/2020 | 39 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-4-5 | 2016743-02 | Total Recoverable Iron | 6/12/2020 | 7000 | Y | y | v | | 50 | 30 | ug/L |
| MW-4-5 | 2016743-02 | Total Recoverable Potassium | 6/12/2020 | 2.1 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-4-5 | 2016743-02 | Total Recoverable Sodium | 6/12/2020 | 36 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-4-5 | 2016743-02 | Total Recoverable Magnesium | 6/12/2020 | 21 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-4-5 | 2016743-02 | Total Recoverable Calcium | 6/12/2020 | 62 | Y | y | v | | 0.10 | 0.014 | mg/L |

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| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | Total Recoverable Chromium | 6/10/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| EB-1-060920 | 2016743-07 | Total Recoverable Lead | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| EB-1-060920 | 2016743-07 | Total Recoverable Arsenic | 6/10/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-4-1 | 2016743-06 | Total Recoverable Lead | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-4-1 | 2016743-06 | Total Recoverable Chromium | 6/10/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-4-1 | 2016743-06 | Total Recoverable Arsenic | 6/10/2020 | 0.88 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-4-2 | 2016743-05 | Total Recoverable Lead | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-4-2 | 2016743-05 | Total Recoverable Chromium | 6/10/2020 | 0.86 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-4-2 | 2016743-05 | Total Recoverable Arsenic | 6/10/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-4-3 | 2016743-04 | Total Recoverable Chromium | 6/10/2020 | 1 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-4-3 | 2016743-04 | Total Recoverable Lead | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-4-3 | 2016743-04 | Total Recoverable Arsenic | 6/10/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-4-4 | 2016743-03 | Total Recoverable Arsenic | 6/10/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-4-4 | 2016743-03 | Total Recoverable Chromium | 6/10/2020 | 0.63 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-4-4 | 2016743-03 | Total Recoverable Lead | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-4-5 | 2016743-02 | Total Recoverable Arsenic | 6/10/2020 | 1.1 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-4-5 | 2016743-02 | Total Recoverable Chromium | 6/10/2020 | 2.4 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-4-5 | 2016743-02 | Total Recoverable Lead | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.10 | 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-1-060920 | 2016743-07 | Hexavalent Chromium | 6/10/2020 | 0.0002 | Y | n | u | | 0.0002 | 0.00003 | mg/L |
| MW-4-1 | 2016743-06 | Hexavalent Chromium | 6/10/2020 | 0.00011 | Y | y | v j | | 0.0002 | 0.00003 | mg/L |
| MW-4-2 | 2016743-05 | Hexavalent Chromium | 6/10/2020 | 0.0002 | Y | n | u | | 0.0002 | 0.00003 | mg/L |
| MW-4-3 | 2016743-04 | Hexavalent Chromium | 6/10/2020 | ##### | Y | y | v j | | 0.0002 | 0.00003 | mg/L |

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| 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-4-4 | 2016743-03 | Hexavalent Chromium | 6/10/2020 | 0.0002 | Y | n | u | | 0.0002 | 0.00003 | mg/L |
| MW-4-5 | 2016743-02 | Hexavalent Chromium | 6/10/2020 | 0.0002 | Y | n | u | | 0.0002 | 0.00003 | 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 |
| EB-1-060920 | 2016743-07 | Chloride | 6/10/2020 | 0.24 | Y | y | v j | | 0.50 | 0.13 | mg/L |
| EB-1-060920 | 2016743-07 | Nitrate as N | 6/10/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| EB-1-060920 | 2016743-07 | Sulfate | 6/10/2020 | 1 | Y | n | u | | 1.0 | 0.14 | mg/L |
| MW-4-1 | 2016743-06 | Nitrate as N | 6/10/2020 | 0.66 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-4-1 | 2016743-06 | Sulfate | 6/10/2020 | 35 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-4-1 | 2016743-06 | Chloride | 6/10/2020 | 11 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-4-2 | 2016743-05 | Nitrate as N | 6/10/2020 | 7.7 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-4-2 | 2016743-05 | Chloride | 6/10/2020 | 93 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-4-2 | 2016743-05 | Sulfate | 6/10/2020 | 130 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-4-3 | 2016743-04 | Sulfate | 6/10/2020 | 89 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-4-3 | 2016743-04 | Chloride | 6/10/2020 | 75 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-4-3 | 2016743-04 | Nitrate as N | 6/10/2020 | 3.5 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-4-4 | 2016743-03 | Nitrate as N | 6/10/2020 | 3.8 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-4-4 | 2016743-03 | Sulfate | 6/10/2020 | 74 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-4-4 | 2016743-03 | Chloride | 6/10/2020 | 54 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-4-5 | 2016743-02 | Sulfate | 6/10/2020 | 79 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-4-5 | 2016743-02 | Nitrate as N | 6/10/2020 | 1 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-4-5 | 2016743-02 | Chloride | 6/10/2020 | 53 | Y | y | v | | 0.50 | 0.13 | mg/L |

| Analytical Method | | EPA-314.0 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

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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 |
| EB-1-060920 | 2016743-07 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-4-1 | 2016743-06 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-4-2 | 2016743-05 | Perchlorate | 6/18/2020 | 50 | Y | y | v | | 20 | 4.0 | ug/L |
| MW-4-3 | 2016743-04 | Perchlorate | 6/18/2020 | 1.3 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-4-4 | 2016743-03 | Perchlorate | 6/18/2020 | 2 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-4-5 | 2016743-02 | Perchlorate | 6/18/2020 | 1.9 | Y | y | v j | | 4.0 | 0.81 | 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 |
| EB-1-060920 | 2016743-07 | Nitrite as N | 6/9/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-4-1 | 2016743-06 | Nitrite as N | 6/9/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-4-2 | 2016743-05 | Nitrite as N | 6/9/2020 | 0.025 | Y | y | v j | | 0.050 | 0.010 | mg/L |
| MW-4-3 | 2016743-04 | Nitrite as N | 6/9/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-4-4 | 2016743-03 | Nitrite as N | 6/9/2020 | 0.16 | Y | y | v | | 0.050 | 0.010 | mg/L |
| MW-4-5 | 2016743-02 | Nitrite as N | 6/9/2020 | 0.48 | Y | y | v | | 0.050 | 0.010 | mg/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-524.2 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| EB-1-060920 | 2016743-07 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-1-060920 | 2016743-07 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-1-060920 | 2016743-07 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-1-060920 | 2016743-07 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| EB-1-060920 | 2016743-07 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-1-060920 | 2016743-07 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-1-060920 | 2016743-07 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-1-060920 | 2016743-07 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| EB-1-060920 | 2016743-07 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| EB-1-060920 | 2016743-07 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-1-060920 | 2016743-07 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-1-060920 | 2016743-07 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-1-060920 | 2016743-07 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| EB-1-060920 | 2016743-07 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-1-060920 | 2016743-07 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| EB-1-060920 | 2016743-07 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-1-060920 | 2016743-07 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| EB-1-060920 | 2016743-07 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-1-060920 | 2016743-07 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-1-060920 | 2016743-07 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-1-060920 | 2016743-07 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-1-060920 | 2016743-07 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-1-060920 | 2016743-07 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-1-060920 | 2016743-07 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-1-060920 | 2016743-07 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| EB-1-060920 | 2016743-07 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| EB-1-060920 | 2016743-07 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| EB-1-060920 | 2016743-07 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-1-060920 | 2016743-07 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-1-060920 | 2016743-07 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-1-060920 | 2016743-07 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| EB-1-060920 | 2016743-07 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-1-060920 | 2016743-07 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| EB-1-060920 | 2016743-07 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| EB-1-060920 | 2016743-07 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-1-060920 | 2016743-07 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-1-060920 | 2016743-07 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-1-060920 | 2016743-07 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-1-060920 | 2016743-07 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| EB-1-060920 | 2016743-07 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-1-060920 | 2016743-07 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-1-060920 | 2016743-07 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-1-060920 | 2016743-07 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-1-060920 | 2016743-07 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-1-060920 | 2016743-07 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-1-060920 | 2016743-07 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-1-060920 | 2016743-07 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| EB-1-060920 | 2016743-07 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-1-060920 | 2016743-07 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-1-060920 | 2016743-07 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-1-060920 | 2016743-07 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-1-060920 | 2016743-07 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-1-060920 | 2016743-07 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-1-060920 | 2016743-07 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-1-060920 | 2016743-07 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-1 | 2016743-06 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-1 | 2016743-06 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-1 | 2016743-06 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-4-1 | 2016743-06 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-4-1 | 2016743-06 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-1 | 2016743-06 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-1 | 2016743-06 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-4-1 | 2016743-06 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-1 | 2016743-06 | t-Amyl Methyl ether | 6/11/2020 | 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-4-1 | 2016743-06 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-4-1 | 2016743-06 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-1 | 2016743-06 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-4-1 | 2016743-06 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-4-1 | 2016743-06 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-4-1 | 2016743-06 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-4-1 | 2016743-06 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-4-1 | 2016743-06 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-4-1 | 2016743-06 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-4-1 | 2016743-06 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-4-1 | 2016743-06 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-4-1 | 2016743-06 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-4-1 | 2016743-06 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-1 | 2016743-06 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-1 | 2016743-06 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-4-1 | 2016743-06 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.7 | Y | y | v s | | | | ug/L |
| MW-4-1 | 2016743-06 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-1 | 2016743-06 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-1 | 2016743-06 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-1 | 2016743-06 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-1 | 2016743-06 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-1 | 2016743-06 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-1 | 2016743-06 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-1 | 2016743-06 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-4-1 | 2016743-06 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | vs | | | | ug/L |
| MW-4-1 | 2016743-06 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-4-1 | 2016743-06 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | vs | | | | ug/L |
| MW-4-1 | 2016743-06 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-1 | 2016743-06 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-4-1 | 2016743-06 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-4-1 | 2016743-06 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-4-1 | 2016743-06 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-4-1 | 2016743-06 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-4-1 | 2016743-06 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-1 | 2016743-06 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-1 | 2016743-06 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-1 | 2016743-06 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-1 | 2016743-06 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-1 | 2016743-06 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-1 | 2016743-06 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-4-1 | 2016743-06 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | 1,2-Dichlorobenzene | 6/11/2020 | 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 | 2016743-06 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-4-1 | 2016743-06 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-1 | 2016743-06 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-1 | 2016743-06 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-4-1 | 2016743-06 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-1 | 2016743-06 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-1 | 2016743-06 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-1 | 2016743-06 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-1 | 2016743-06 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-1 | 2016743-06 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-1 | 2016743-06 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-1 | 2016743-06 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-1 | 2016743-06 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-1 | 2016743-06 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-1 | 2016743-06 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-4-1 | 2016743-06 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-1 | 2016743-06 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-1 | 2016743-06 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-1 | 2016743-06 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | 1,3,5-Trimethylbenzene | 6/11/2020 | 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-4-2 | 2016743-05 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-4-2 | 2016743-05 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-4-2 | 2016743-05 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-4-2 | 2016743-05 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-4-2 | 2016743-05 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-2 | 2016743-05 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-4-2 | 2016743-05 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-4-2 | 2016743-05 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-2 | 2016743-05 | Tetrachloroethene | 6/11/2020 | 0.23 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-2 | 2016743-05 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-4-2 | 2016743-05 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-4-2 | 2016743-05 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | Trichloroethene | 6/11/2020 | 0.39 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-4-2 | 2016743-05 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-2 | 2016743-05 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-4-2 | 2016743-05 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-2 | 2016743-05 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-4-2 | 2016743-05 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-2 | 2016743-05 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-4-2 | 2016743-05 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-4-2 | 2016743-05 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-4-2 | 2016743-05 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-4-2 | 2016743-05 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-4-2 | 2016743-05 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-2 | 2016743-05 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-4-2 | 2016743-05 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-4-2 | 2016743-05 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-2 | 2016743-05 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-4-2 | 2016743-05 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-2 | 2016743-05 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-4-2 | 2016743-05 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-2 | 2016743-05 | Chloroform | 6/11/2020 | 0.59 | Y | y | v | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-4-2 | 2016743-05 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-2 | 2016743-05 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-2 | 2016743-05 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-4-2 | 2016743-05 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-2 | 2016743-05 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-2 | 2016743-05 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-4-2 | 2016743-05 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | 1,1-Dichloropropene | 6/11/2020 | 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 | 2016743-05 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-4-2 | 2016743-05 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-2 | 2016743-05 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-2 | 2016743-05 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-2 | 2016743-05 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-2 | 2016743-05 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-2 | 2016743-05 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-4-3 | 2016743-04 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-3 | 2016743-04 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-4-3 | 2016743-04 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-4-3 | 2016743-04 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-4-3 | 2016743-04 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-4-3 | 2016743-04 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-3 | 2016743-04 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-4-3 | 2016743-04 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-4-3 | 2016743-04 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-4-3 | 2016743-04 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-3 | 2016743-04 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-3 | 2016743-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-3 | 2016743-04 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-4-3 | 2016743-04 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Trichloroethene | 6/11/2020 | 0.28 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-4-3 | 2016743-04 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-3 | 2016743-04 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-3 | 2016743-04 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-3 | 2016743-04 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-3 | 2016743-04 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-3 | 2016743-04 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-4-3 | 2016743-04 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-3 | 2016743-04 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-3 | 2016743-04 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-3 | 2016743-04 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-3 | 2016743-04 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-3 | 2016743-04 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-4-3 | 2016743-04 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-4-3 | 2016743-04 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-4-3 | 2016743-04 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-4-3 | 2016743-04 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-4-3 | 2016743-04 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-4-3 | 2016743-04 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-4-3 | 2016743-04 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-4-3 | 2016743-04 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-4-3 | 2016743-04 | Methyl isobutyl ketone | 6/11/2020 | 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-4-3 | 2016743-04 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-4-3 | 2016743-04 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-4-3 | 2016743-04 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-4-3 | 2016743-04 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-4-3 | 2016743-04 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-3 | 2016743-04 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-3 | 2016743-04 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-3 | 2016743-04 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-4-3 | 2016743-04 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-3 | 2016743-04 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-3 | 2016743-04 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-4-3 | 2016743-04 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-4-3 | 2016743-04 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-3 | 2016743-04 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-3 | 2016743-04 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-3 | 2016743-04 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-3 | 2016743-04 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-4-3 | 2016743-04 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-4-3 | 2016743-04 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-3 | 2016743-04 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-3 | 2016743-04 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-3 | 2016743-04 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-3 | 2016743-04 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-3 | 2016743-04 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-3 | 2016743-04 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-3 | 2016743-04 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-4-3 | 2016743-04 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-3 | 2016743-04 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-3 | 2016743-04 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-3 | 2016743-04 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-3 | 2016743-04 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-3 | 2016743-04 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-3 | 2016743-04 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-3 | 2016743-04 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-3 | 2016743-04 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-3 | 2016743-04 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-3 | 2016743-04 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-3 | 2016743-04 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-3 | 2016743-04 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-3 | 2016743-04 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-4 | 2016743-03 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-4-4 | 2016743-03 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-4-4 | 2016743-03 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-4 | 2016743-03 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-4-4 | 2016743-03 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-4-4 | 2016743-03 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-4-4 | 2016743-03 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-4 | 2016743-03 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-4 | 2016743-03 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-4-4 | 2016743-03 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-4-4 | 2016743-03 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-4 | 2016743-03 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-4 | 2016743-03 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-4 | 2016743-03 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-4 | 2016743-03 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-4 | 2016743-03 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-4 | 2016743-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-4 | 2016743-03 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-4 | 2016743-03 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-4 | 2016743-03 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-4 | 2016743-03 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-4 | 2016743-03 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-4 | 2016743-03 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-4 | 2016743-03 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-4-4 | 2016743-03 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 9.7 | Y | y | v s | | | | ug/L |
| MW-4-4 | 2016743-03 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-4-4 | 2016743-03 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-4-4 | 2016743-03 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-4-4 | 2016743-03 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-4-4 | 2016743-03 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-4-4 | 2016743-03 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-4-4 | 2016743-03 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-4-4 | 2016743-03 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-4-4 | 2016743-03 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-4-4 | 2016743-03 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-4-4 | 2016743-03 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-4 | 2016743-03 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-4-4 | 2016743-03 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-4 | 2016743-03 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-4-4 | 2016743-03 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-4 | 2016743-03 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-4 | 2016743-03 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-4 | 2016743-03 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-4 | 2016743-03 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-4-4 | 2016743-03 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-4 | 2016743-03 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-4 | 2016743-03 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-4 | 2016743-03 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-4-4 | 2016743-03 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-4-4 | 2016743-03 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-4 | 2016743-03 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-4 | 2016743-03 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-4 | 2016743-03 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-4 | 2016743-03 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-4 | 2016743-03 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-4-4 | 2016743-03 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-4 | 2016743-03 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | Isopropylbenzene | 6/11/2020 | 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-4-4 | 2016743-03 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-4 | 2016743-03 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-4 | 2016743-03 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-4 | 2016743-03 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-4 | 2016743-03 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-4-4 | 2016743-03 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-4 | 2016743-03 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-4 | 2016743-03 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-4 | 2016743-03 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-4 | 2016743-03 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-4 | 2016743-03 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.7 | Y | y | v s | | | | ug/L |
| MW-4-4 | 2016743-03 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-4 | 2016743-03 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-5 | 2016743-02 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-5 | 2016743-02 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-5 | 2016743-02 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-5 | 2016743-02 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-5 | 2016743-02 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-5 | 2016743-02 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-5 | 2016743-02 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-5 | 2016743-02 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-5 | 2016743-02 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-4-5 | 2016743-02 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-5 | 2016743-02 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-4-5 | 2016743-02 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-5 | 2016743-02 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-5 | 2016743-02 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-4-5 | 2016743-02 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-4-5 | 2016743-02 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-4-5 | 2016743-02 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-4-5 | 2016743-02 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-5 | 2016743-02 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-5 | 2016743-02 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | Chlorobenzene | 6/11/2020 | 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-4-5 | 2016743-02 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-4-5 | 2016743-02 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-5 | 2016743-02 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-4-5 | 2016743-02 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-5 | 2016743-02 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-4-5 | 2016743-02 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-4-5 | 2016743-02 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-5 | 2016743-02 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-4-5 | 2016743-02 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-4-5 | 2016743-02 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-4-5 | 2016743-02 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-4-5 | 2016743-02 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-4-5 | 2016743-02 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-4-5 | 2016743-02 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-4-5 | 2016743-02 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-4-5 | 2016743-02 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-4-5 | 2016743-02 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-4-5 | 2016743-02 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-4-5 | 2016743-02 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-4-5 | 2016743-02 | Toluene-d8 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-5 | 2016743-02 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-4-5 | 2016743-02 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-5 | 2016743-02 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-5 | 2016743-02 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-5 | 2016743-02 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-5 | 2016743-02 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-5 | 2016743-02 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-5 | 2016743-02 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-4-5 | 2016743-02 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-4-5 | 2016743-02 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-5 | 2016743-02 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-4-5 | 2016743-02 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-5 | 2016743-02 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-4-5 | 2016743-02 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-5 | 2016743-02 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-4-5 | 2016743-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-4-5 | 2016743-02 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-4-5 | 2016743-02 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-4-5 | 2016743-02 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-4-5 | 2016743-02 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-4-5 | 2016743-02 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-4-5 | 2016743-02 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-4-5 | 2016743-02 | t-Amyl Methyl ether | 6/11/2020 | 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-4-5 | 2016743-02 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-4-5 | 2016743-02 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-4-5 | 2016743-02 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-4-5 | 2016743-02 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-4-5 | 2016743-02 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-4-5 | 2016743-02 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-4-5 | 2016743-02 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-1-060920 | 2016743-01 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-1-060920 | 2016743-01 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-1-060920 | 2016743-01 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-1-060920 | 2016743-01 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-1-060920 | 2016743-01 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-1-060920 | 2016743-01 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-1-060920 | 2016743-01 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-1-060920 | 2016743-01 | Methyl t-butyl ether | 6/11/2020 | 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 |
| TB-1-060920 | 2016743-01 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| TB-1-060920 | 2016743-01 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-1-060920 | 2016743-01 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-1-060920 | 2016743-01 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-1-060920 | 2016743-01 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-1-060920 | 2016743-01 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-1-060920 | 2016743-01 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-1-060920 | 2016743-01 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| TB-1-060920 | 2016743-01 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-1-060920 | 2016743-01 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-1-060920 | 2016743-01 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-1-060920 | 2016743-01 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-1-060920 | 2016743-01 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2-Dichlorobenzene | 6/11/2020 | 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 |
| TB-1-060920 | 2016743-01 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-1-060920 | 2016743-01 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| TB-1-060920 | 2016743-01 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-1-060920 | 2016743-01 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-1-060920 | 2016743-01 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-1-060920 | 2016743-01 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-1-060920 | 2016743-01 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-1-060920 | 2016743-01 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-1-060920 | 2016743-01 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-1-060920 | 2016743-01 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-1-060920 | 2016743-01 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| TB-1-060920 | 2016743-01 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-1-060920 | 2016743-01 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-1-060920 | 2016743-01 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-1-060920 | 2016743-01 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| TB-1-060920 | 2016743-01 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| TB-1-060920 | 2016743-01 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-1-060920 | 2016743-01 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-1-060920 | 2016743-01 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-1-060920 | 2016743-01 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-1-060920 | 2016743-01 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-1-060920 | 2016743-01 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-1-060920 | 2016743-01 | Tetrahydrofuran | 6/11/2020 | 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 |
| TB-1-060920 | 2016743-01 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-1-060920 | 2016743-01 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-1-060920 | 2016743-01 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-1-060920 | 2016743-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-1-060920 | 2016743-01 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-1-060920 | 2016743-01 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-1-060920 | 2016743-01 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-1-060920 | 2016743-01 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-1-060920 | 2016743-01 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-1-060920 | 2016743-01 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-1-060920 | 2016743-01 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-1-060920 | 2016743-01 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-1-060920 | 2016743-01 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-1-060920 | 2016743-01 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-1-060920 | 2016743-01 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| TB-1-060920 | 2016743-01 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|----------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-1 | 2016743-06 | 1,4-Dioxane | 6/22/2020 | 1 | Y | n | u | | 1.0 | 0.16 | ug/L |
| MW-4-1 | 2016743-06 | Naphthalene-d8 (Surrogate) | 6/22/2020 | 8.4 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,2,4,5-Tetrachlorobenzene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2,4,5-Trimethylaniline | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 2,4,5-Trichlorophenol | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2,3,4,6-Tetrachlorophenol | 6/16/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-4-2 | 2016743-05 | 2,3,4,5-Tetrachlorophenol | 6/16/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-4-2 | 2016743-05 | 1-Naphthylamine | 6/16/2020 | 20 | Y | n | u | UJ | 20 | 0.30 | ug/L |
| MW-4-2 | 2016743-05 | 1-Methylnaphthalene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-4-2 | 2016743-05 | 1-Chloronaphthalene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-4-2 | 2016743-05 | 1-Acetyl-2-thiourea | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,4-Phenylenediamine | 6/16/2020 | 20 | Y | n | u | | 20 | 1.1 | ug/L |
| MW-4-2 | 2016743-05 | Isophorone | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 1,4-Dinitrobenzene | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,4-Dichlorobenzene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.27 | ug/L |
| MW-4-2 | 2016743-05 | 1,3-Dinitrobenzene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.93 | ug/L |
| MW-4-2 | 2016743-05 | 1,3-Dichlorobenzene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 1,3,5-Trinitrobenzene | 6/16/2020 | 10 | Y | n | u | | 10 | 1.4 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Diphenylhydrazine | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dinitrobenzene | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,1-Biphenyl | 6/16/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-4-2 | 2016743-05 | Toxaphene | 6/16/2020 | 100 | Y | n | u | | 100 | 50 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dibromo-3-chloropropane | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 2,4,6-Tribromophenol (Surrogate) | 6/16/2020 | 46 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,4-Naphthoquinone | 6/16/2020 | 20 | Y | n | u | UJ | 20 | 0.87 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | 2-Cyclohexyl-4,6-dinitrophenol | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Dichlorvos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 1,2,4-Trichlorobenzene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | trans-Chlordane | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.55 | ug/L |
| MW-4-2 | 2016743-05 | Total PCB's (Summation) | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | Toluene 2,4-diisocyanate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Thiophenol (Benzenethiol) | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Thionazin | 6/16/2020 | 10 | Y | n | u | | 10 | 0.38 | ug/L |
| MW-4-2 | 2016743-05 | Tetrachlorvinphos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 2-Methylphenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2-Methylnaphthalene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Total Methylphenol | 6/16/2020 | 4 | Y | n | u | | 4.0 | 0.60 | ug/L |
| MW-4-2 | 2016743-05 | 2-Fluorobiphenyl (Surrogate) | 6/16/2020 | 34 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | 2,4,6-Trichlorophenol | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2-Chlorophenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2-Chloronaphthalene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2-Aminoanthraquinone | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 2-Acetylaminofluorene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.78 | ug/L |
| MW-4-2 | 2016743-05 | 2,6-Dinitrotoluene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2,6-Dichlorophenol | 6/16/2020 | 10 | Y | n | u | | 10 | 0.28 | ug/L |
| MW-4-2 | 2016743-05 | 2,4-Dinitrotoluene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-4-2 | 2016743-05 | 2,4-Dinitrophenol | 6/16/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2,4-Dimethylphenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2,4-Dichlorophenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | 2,4-Diaminotoluene | 6/16/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|---|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | 2-Fluorophenol (Surrogate) | 6/16/2020 | 30 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | 3- & 4-Methylphenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-4-2 | 2016743-05 | Barban | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4,4'-Oxydianiline | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4,4'-Methylenebis[N,N-dimethylaniline] | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4,4'-Methylenebis(2-chloroaniline) | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4,4'-DDT | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-4-2 | 2016743-05 | 4,4'-DDE | 6/16/2020 | 3 | Y | n | u | | 3.0 | 0.24 | ug/L |
| MW-4-2 | 2016743-05 | 4,4'-DDD | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-4-2 | 2016743-05 | 3-Nitroaniline | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-4-2 | 2016743-05 | 3-Methylcholanthrene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.31 | ug/L |
| MW-4-2 | 2016743-05 | 3-Amino-9-ethylcarbazole | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 3,3'-Dimethylbenzidine | 6/16/2020 | 20 | Y | n | u | | 20 | 0.42 | ug/L |
| MW-4-2 | 2016743-05 | 3,3'-Dimethoxybenzidine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4-Aminobiphenyl | 6/16/2020 | 20 | Y | n | u | | 20 | 0.35 | ug/L |
| MW-4-2 | 2016743-05 | 3-(Chloromethyl) pyridine hydrochloride | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4-Bromophenyl phenyl ether | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2-Toluidine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.41 | ug/L |
| MW-4-2 | 2016743-05 | 2-Picoline | 6/16/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-4-2 | 2016743-05 | 2-Nitrophenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 2-Nitroaniline | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Phthalic anhydride | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Phosphamidon | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Phosmet | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Phosalone | 6/16/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Phorate | 6/16/2020 | 10 | Y | n | u | | 10 | 0.35 | ug/L |
| MW-4-2 | 2016743-05 | Phenol-d5 (Surrogate) | 6/16/2020 | 20 | Y | y | vs | | | | ug/L |
| MW-4-2 | 2016743-05 | Phenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | Phenobarbital | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 3,3-Dichlorobenzidine | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-4-2 | 2016743-05 | 5-Nitro-o-anisidine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Azinphos methyl | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Dicrotophos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Anthracene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 1,2-Dichlorobenzene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Anilazine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | alpha-BHC | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Aldrin | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | Acrolein, dimethyl acetal | 6/16/2020 | 40 | Y | n | u | | 40 | 6.1 | ug/L |
| MW-4-2 | 2016743-05 | Acetophenone | 6/16/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-4-2 | 2016743-05 | Acenaphthylene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Acenaphthene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | a,a-Dimethylphenethylamine | 6/16/2020 | 20 | Y | n | u | | 20 | 4.9 | ug/L |
| MW-4-2 | 2016743-05 | 4,6-Dinitro-2-methylphenol | 6/16/2020 | 10 | Y | n | u | | 10 | 0.24 | ug/L |
| MW-4-2 | 2016743-05 | 5-Nitro-o-toluidine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.85 | ug/L |
| MW-4-2 | 2016743-05 | Pentachlorophenol | 6/16/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-4-2 | 2016743-05 | 5-Nitroacenaphthene | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 5-Chloro-2-methylaniline | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 5,5-Diphenylhydantoin | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4-Nitroquinoline 1-oxide | 6/16/2020 | 20 | Y | n | u | | 20 | 0.95 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | 4-Nitrophenol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-4-2 | 2016743-05 | 4-Nitrobiphenyl | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4-Nitroaniline | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.38 | ug/L |
| MW-4-2 | 2016743-05 | 4-Chlorophenyl phenyl ether | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 4-Chloroaniline | 6/16/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-4-2 | 2016743-05 | 4-Chloro-3-methylphenol | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | 4-Chloro-1,3-phenylenediamine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 4-Chloro-1,2-phenylenediamine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 7,12-Dimethylbenz[a]anthracene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-4-2 | 2016743-05 | Mexacarbate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosodiphenylamine | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosodi-N-propylamine | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosodimethylamine | 6/16/2020 | 2 | Y | n | u | | 2.0 | 1.2 | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosodiethylamine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.55 | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosodibutylamine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-4-2 | 2016743-05 | N-Methyl-2-pyrrolidinone | 6/16/2020 | 10 | Y | n | u | | 10 | 2.5 | ug/L |
| MW-4-2 | 2016743-05 | Nitrophen | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Nitrobenzene-d5 (Surrogate) | 6/16/2020 | 39 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | Nitrobenzene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Nicotine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Naphthalene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Naled | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Phenanthrene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Mirex | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosopiperidine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.47 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Mevinphos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Methyl parathion | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.71 | ug/L |
| MW-4-2 | 2016743-05 | Methyl methanesulfonate | 6/16/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-4-2 | 2016743-05 | Methyl methacrylate | 6/16/2020 | 40 | Y | n | u | | 40 | 3.8 | ug/L |
| MW-4-2 | 2016743-05 | Methoxychlor | 6/16/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Methapyrilene | 6/16/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-4-2 | 2016743-05 | Mestranol | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Maleic Anhydride | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Malathion | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Leptophos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Kepone | 6/16/2020 | 20 | Y | n | u | | 20 | 2.2 | ug/L |
| MW-4-2 | 2016743-05 | Isosafrole | 6/16/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-4-2 | 2016743-05 | Monocrotophos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Trimethyl phosphate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Aramite | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.35 | ug/L |
| MW-4-2 | 2016743-05 | Pentachloronitrobenzene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.42 | ug/L |
| MW-4-2 | 2016743-05 | Pentachloroethane | 6/16/2020 | 20 | Y | n | u | | 20 | 0.31 | ug/L |
| MW-4-2 | 2016743-05 | Pentachlorobenzene | 6/16/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | p-Cresidine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | PCB-1268 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1262 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1260 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1254 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1248 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1242 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |

SDG: 2016743

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | trans-Diallate | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.56 | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosomethylethylamine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-4-2 | 2016743-05 | Trifluralin | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosomorpholine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.63 | ug/L |
| MW-4-2 | 2016743-05 | Tri-p-tolyl phosphate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Tris(2,3-dibromopropyl) phosphate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Tris(hydroxymethyl)nitromethane | 6/16/2020 | 50 | Y | n | u | | 50 | 5.0 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1232 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1221 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | PCB-1016 | 6/16/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-4-2 | 2016743-05 | p-Benzoquinone | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | p-(Dimethylamino)azobenzene | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.27 | ug/L |
| MW-4-2 | 2016743-05 | Octamethylpyrophosphoramidate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | o-Anisidine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | o,o,o-Triethylphosphorothioate | 6/16/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-4-2 | 2016743-05 | N-Nitrosopyrrolidine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.39 | ug/L |
| MW-4-2 | 2016743-05 | Phenacetin | 6/16/2020 | 10 | Y | n | u | | 10 | 0.75 | ug/L |
| MW-4-2 | 2016743-05 | trans-Isosafrole | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.29 | ug/L |
| MW-4-2 | 2016743-05 | Dinocap | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Hexachlorophene | 6/16/2020 | 200 | Y | n | u | UJ | 200 | 20 | ug/L |
| MW-4-2 | 2016743-05 | Hexachloropropene | 6/16/2020 | 20 | Y | n | u | | 20 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | Hexamethylphosphoramidate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Hydroquinone | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Indeno[1,2,3-cd]pyrene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.29 | ug/L |
| MW-4-2 | 2016743-05 | Isodrin | 6/16/2020 | 10 | Y | n | u | | 10 | 0.43 | ug/L |

SDG: 2016743

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Terbufos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | TEPP | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Sulfotep | 6/16/2020 | 10 | Y | n | u | | 10 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | Dioxathion | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Dieldrin | 6/16/2020 | 3 | Y | n | u | | 3.0 | 0.39 | ug/L |
| MW-4-2 | 2016743-05 | Di-n-octyl phthalate | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | Hexachlorocyclopentadiene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-4-2 | 2016743-05 | Di-n-butyl phthalate | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Dimethyl sulfoxide (DMSO) | 6/16/2020 | 10 | Y | n | u | | 10 | 9.5 | ug/L |
| MW-4-2 | 2016743-05 | Aniline | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.28 | ug/L |
| MW-4-2 | 2016743-05 | Dimethyl phthalate | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Benefin | 6/16/2020 | 10 | Y | n | u | | 10 | 0.88 | ug/L |
| MW-4-2 | 2016743-05 | Sulfallate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Dimethoate | 6/16/2020 | 20 | Y | n | u | | 20 | 0.99 | ug/L |
| MW-4-2 | 2016743-05 | Dihydrosafrole | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Diethylstilbestrol | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Diethyl sulfate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Endosulfan II | 6/16/2020 | 10 | Y | n | u | | 10 | 0.30 | ug/L |
| MW-4-2 | 2016743-05 | Dinoseb | 6/16/2020 | 10 | Y | n | u | | 10 | 0.91 | ug/L |
| MW-4-2 | 2016743-05 | Fluchloralin | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Endosulfan sulfate | 6/16/2020 | 3 | Y | n | u | | 3.0 | 0.23 | ug/L |
| MW-4-2 | 2016743-05 | Endrin | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.38 | ug/L |
| MW-4-2 | 2016743-05 | Endrin aldehyde | 6/16/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-4-2 | 2016743-05 | Endrin ketone | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | EPN | 6/16/2020 | 0 | Y | y | v | | | | ug/L |

SDG: 2016743

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Ethion | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Ethyl carbamate | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Ethyl methacrylate | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 1.2 | ug/L |
| MW-4-2 | 2016743-05 | Ethyl methanesulfonate | 6/16/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-4-2 | 2016743-05 | Ethyl Parathion | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-4-2 | 2016743-05 | Famphur | 6/16/2020 | 20 | Y | n | u | UJ | 20 | 4.1 | ug/L |
| MW-4-2 | 2016743-05 | Hexachloroethane | 6/16/2020 | 0.23 | Y | y | v j | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Fenthion | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | 2-Naphthylamine | 6/16/2020 | 20 | Y | n | u | UJ | 20 | 1.3 | ug/L |
| MW-4-2 | 2016743-05 | Fluoranthene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.28 | ug/L |
| MW-4-2 | 2016743-05 | Fluorene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | gamma-BHC (Lindane) | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Heptachlor | 6/16/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Endosulfan I | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.31 | ug/L |
| MW-4-2 | 2016743-05 | Disulfoton | 6/16/2020 | 10 | Y | n | u | UJ | 10 | 0.33 | ug/L |
| MW-4-2 | 2016743-05 | Diphenylamine | 6/16/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-4-2 | 2016743-05 | Heptachlor epoxide | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-4-2 | 2016743-05 | Hexachlorobenzene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.25 | ug/L |
| MW-4-2 | 2016743-05 | Hexachlorobutadiene | 6/16/2020 | 0.23 | Y | y | v j | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Strychnine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Fensulfothion | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | bis(2-Chloroethoxy)methane | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Carbophenothion | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Carbofuran | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Dichlone | 6/16/2020 | 0 | Y | y | v | | | | ug/L |

SDG: 2016743

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Carbazole | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Carbaryl | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Captan | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Captafol | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Caprolactam | 6/16/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-4-2 | 2016743-05 | Bromoxynil | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | bis(2-Ethylhexyl)phthalate | 6/16/2020 | 4 | Y | n | u | | 4.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Diethyl phthalate | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | bis(2-Chloroethyl) ether | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-4-2 | 2016743-05 | Chrysene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | beta-BHC | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Benzyl butyl phthalate | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Benzyl alcohol | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Benzoic acid | 6/16/2020 | 10 | Y | n | u | | 10 | 0.52 | ug/L |
| MW-4-2 | 2016743-05 | Benzo[k]fluoranthene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-4-2 | 2016743-05 | Benzo[g,h,i]perylene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-4-2 | 2016743-05 | Benzo[b]fluoranthene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.24 | ug/L |
| MW-4-2 | 2016743-05 | Benzo[a]pyrene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Benzo[a]anthracene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-4-2 | 2016743-05 | Benzidine | 6/16/2020 | 20 | Y | n | u | UJ | 20 | 1.6 | ug/L |
| MW-4-2 | 2016743-05 | Benzaldehyde | 6/16/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-4-2 | 2016743-05 | bis(2-Chloroisopropyl)ether | 6/16/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Dibenzo[a,e]pyrene | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Safrole | 6/16/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-4-2 | 2016743-05 | Resorcinol | 6/16/2020 | 0 | Y | y | v | | | | ug/L |

SDG: 2016743

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-4-2 | 2016743-05 | Pyridine | 6/16/2020 | 10 | Y | n | u | | 10 | 1.6 | ug/L |
| MW-4-2 | 2016743-05 | Pyrene | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-4-2 | 2016743-05 | p-Terphenyl-d14 (Surrogate) | 6/16/2020 | 13 | Y | y | v s | | | | ug/L |
| MW-4-2 | 2016743-05 | Prowl | 6/16/2020 | 10 | Y | n | u | | 10 | 0.83 | ug/L |
| MW-4-2 | 2016743-05 | Propylthiouracil | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Propyleneglycol monomethyl ether acetate | 6/16/2020 | 10 | Y | n | u | | 10 | 3.7 | ug/L |
| MW-4-2 | 2016743-05 | Pronamide | 6/16/2020 | 10 | Y | n | u | | 10 | 0.22 | ug/L |
| MW-4-2 | 2016743-05 | Prometryn | 6/16/2020 | 10 | Y | n | u | | 10 | 1.7 | ug/L |
| MW-4-2 | 2016743-05 | Piperonyl sulfoxide | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Chlorfenvinphos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Dibenzo[a,h]anthracene | 6/16/2020 | 3 | Y | n | u | | 3.0 | 0.34 | ug/L |
| MW-4-2 | 2016743-05 | Chlorobenzilate | 6/16/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-4-2 | 2016743-05 | Dibenz[a,j]acridine | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Diallate | 6/16/2020 | 10 | Y | n | u | | 10 | 3.0 | ug/L |
| MW-4-2 | 2016743-05 | Demeton-S | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Demeton-O | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | delta-BHC | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-4-2 | 2016743-05 | Crotoxyphos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | Coumaphos | 6/16/2020 | 0 | Y | y | v | | | | ug/L |
| MW-4-2 | 2016743-05 | cis-Isosafrole | 6/16/2020 | 5 | Y | n | u | | 5.0 | 0.44 | ug/L |
| MW-4-2 | 2016743-05 | cis-Diallate | 6/16/2020 | 5 | Y | n | u | | 5.0 | 2.4 | ug/L |
| MW-4-2 | 2016743-05 | cis-Chlordane | 6/16/2020 | 5 | Y | n | u | UJ | 5.0 | 0.59 | ug/L |
| MW-4-2 | 2016743-05 | Dibenzofuran | 6/16/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

SDG: 2016743

| Analytical Method | SM-2320B | | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-1-060920 | 2016743-07 | Total Alkalinity as CaCO3 | 6/15/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| EB-1-060920 | 2016743-07 | Carbonate | 6/15/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| EB-1-060920 | 2016743-07 | Bicarbonate | 6/15/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-4-1 | 2016743-06 | Total Alkalinity as CaCO3 | 6/15/2020 | 140 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-4-1 | 2016743-06 | Carbonate | 6/15/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-4-1 | 2016743-06 | Bicarbonate | 6/15/2020 | 180 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-4-2 | 2016743-05 | Total Alkalinity as CaCO3 | 6/15/2020 | 210 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-4-2 | 2016743-05 | Bicarbonate | 6/15/2020 | 260 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-4-2 | 2016743-05 | Carbonate | 6/15/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-4-3 | 2016743-04 | Total Alkalinity as CaCO3 | 6/15/2020 | 190 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-4-3 | 2016743-04 | Carbonate | 6/15/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-4-3 | 2016743-04 | Bicarbonate | 6/15/2020 | 240 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-4-4 | 2016743-03 | Bicarbonate | 6/15/2020 | 190 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-4-4 | 2016743-03 | Carbonate | 6/15/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-4-4 | 2016743-03 | Total Alkalinity as CaCO3 | 6/15/2020 | 150 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-4-5 | 2016743-02 | Total Alkalinity as CaCO3 | 6/15/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-4-5 | 2016743-02 | Carbonate | 6/15/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-4-5 | 2016743-02 | Bicarbonate | 6/15/2020 | 200 | Y | y | v | | 5.0 | 5.0 | mg/L |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016927

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-2-061020 | 2016927-01 | Water | 06/10/20 |
| MW-26-1 | 2016927-02 | Water | 06/10/20 |
| MW-26-2 | 2016927-03 | Water | 06/10/20 |
| MW-18-5 | 2016927-04 | Water | 06/10/20 |
| MW-18-3 | 2016927-05 | Water | 06/10/20 |
| MW-18-4 | 2016927-06 | Water | 06/10/20 |
| EB-2-061020 | 2016927-07 | Water | 06/10/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/10/20 | Diethyl ether | 74.0 | All samples in SDG 2016927 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|-----------------------------|--------------|----------------------------|--|--------|
| 06/11/20 (11JUN02) | Bromomethane Naphthalene | 34.8 31.1 | All samples in SDG 2016927 | UJ (all non-detects) UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|---------------|------|-------------------------------|----------------------|--------|
| 06/11/20 (11JUN03) | Methyl iodide | 44.0 | All samples in SDG 2016927 | 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-2-061020 was identified as a trip blank. No contaminants were found.

Sample EB-2-061020 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

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

NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2016927

| Sample | Compound | Flag | A or P | Reason |
|---|--|--|--------|---------------------------------------|
| TB-2-061020 MW-26-1 MW-26-2 MW-18-5 MW-18-3 MW-18-4 EB-2-061020 | Diethyl ether | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-2-061020 MW-26-1 MW-26-2 MW-18-5 MW-18-3 MW-18-4 EB-2-061020 | Bromomethane Naphthalene Methyl iodide | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2016927

No Sample Data Qualified in this SDG

LDC #: 48646B1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2016927

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/1/20

Page: 1 of 1

Reviewer: V

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

| | Validation Area | | Comments |
|-------|--|----|----------------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A | RSO = 25%. Y = 100% KCV = 33% |
| IV. | Continuing calibration | A | CV = 33% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB = 1. EB = 7 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| 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-2-061020 | 2016927-01 | Water | 06/10/20 |
| 2 | MW-26-1 | 2016927-02 | Water | 06/10/20 |
| 3 | MW-26-2 | 2016927-03 | Water | 06/10/20 |
| 4 | MW-18-5 | 2016927-04 | Water | 06/10/20 |
| 5 | MW-18-3 | 2016927-05 | Water | 06/10/20 |
| 6 | MW-18-4 | 2016927-06 | Water | 06/10/20 |
| 7 | EB-2-061020 | 2016927-07 | Water | 06/10/20 |
| 8 | | | | |
| 9 | | | | |

Notes:

| | | | | | | | |
|--|--|--|--|--|--|--|--|
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TARGET COMPOUND WORKSHEET

METHOD: VOA

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

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

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Semivolatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016927

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-18-4 | 2016927-06 | Water | 06/10/20 |

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:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) SW 846 Method 8270C

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

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

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered 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

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|----------|---|--|-------------------------------|--|--------|
| 06/15/20 | Benzidine Endosulfan I 2-Naphthylamine cis-Chlordane Famphur 1-Naphthylamine | 56.06873 18.33888 49.74228 32.46043 40.31817 37.88838 | All samples in SDG 2016927 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

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 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|--|--------------------------------------|-------------------------------|--|--|--------|
| 06/16/20 (16JUN003) | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | 25.2 27.2 25.9 20.8 33.4 | All samples in SDG 2016927 | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|-----------------------------|------------|-------------------------------|-----------------------------|----------------------|--------|
| 06/16/20 (16JUN004) | Aramite | 20.9 | All samples in SDG 2016927 | Aramite | UJ (all non-detects) | A |
| | p-(Dimethylamino)azobenzene | 23.9 | | p-(Dimethylamino)azobenzene | UJ (all non-detects) | |
| | Disulfoton | 22.6 | | Disulfoton | UJ (all non-detects) | |
| | Ethyl methacrylate | 31.2 | | Ethyl methacrylate | UJ (all non-detects) | |
| | Ethyl Parathion | 23.9 | | Ethyl Parathion | UJ (all non-detects) | |
| | Methyl parathion | 26.3 | | Methyl parathion | UJ (all non-detects) | |
| | 1,4-Naphthoquinone | 33.7 | | 1,4-Naphthoquinone | UJ (all non-detects) | |
| | Hexachlorophene | 36.1 | | Hexachlorophene | UJ (all non-detects) | |
| | PCB-1260 | 22.7 | | PCB-1260 | UJ (all non-detects) | |
| | | | | PCB-1016 | UJ (all non-detects) | |
| | | | | PCB-1221 | UJ (all non-detects) | |
| | | | | PCB-1232 | UJ (all non-detects) | |
| | | | | PCB-1242 | UJ (all non-detects) | |
| | | | | PCB-1248 | UJ (all non-detects) | |
| | | PCB-1254 | UJ (all non-detects) | | | |
| | | PCB-1262 | UJ (all non-detects) | | | |
| | | PCB-1268 | UJ (all non-detects) | | | |
| | | Total PCBs | UJ (all non-detects) | | | |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

Due to initial calibration %RSD and ICV %D, data were qualified as estimated in one sample.

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

LDC #: 48646B2a
 SDG #: 2016927
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 8/1/20
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: _____

METHOD: GC/MS Semivolatiles (EPA SW846 Method 8270C)

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

| | Validation Area | | Comments |
|-------|--|-------|--|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | IN/NI | RSD ≤ 15/30% . r ² CV ≤ 20% |
| IV. | Continuing calibration | A | CCV ≤ 50% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | |
| X. | Field duplicates | N | |
| XI. | Internal standards | NI | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-18-4 | 2016927-06 | Water | 06/10/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
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Notes:

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VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

| | | | | |
|---------------------------------|---------------------------------|----------------------------------|---|--|
| A. Phenol | CC. Dimethylphthalate | EEE. Bis(2-ethylhexyl)phthalate | GGGG. C30-Hopane | I1. Methyl methanesulfonate |
| B. Bis (2-chloroethyl) ether | DD. Acenaphthylene | FFF. Di-n-octylphthalate | HHHH. 1-Methylphenanthrene | J1. Ethyl methanesulfonate |
| C. 2-Chlorophenol | EE. 2,6-Dinitrotoluene | GGG. Benzo(b)fluoranthene | IIII. 1,4-Dioxane | K1. o,o',o"-Triethylphosphorothioate |
| D. 1,3-Dichlorobenzene | FF. 3-Nitroaniline | HHH. Benzo(k)fluoranthene | JJJJ. Acetophenone | L1. n-Phenylene diamine |
| E. 1,4-Dichlorobenzene | GG. Acenaphthene | III. Benzo(a)pyrene | KKKK. Atrazine | M1. 1,4-Naphthoquinone |
| F. 1,2-Dichlorobenzene | HH. 2,4-Dinitrophenol | JJJ. Indeno(1,2,3-cd)pyrene | LLLL. Benzaldehyde | N1. N-Nitro-o-toluidine |
| G. 2-Methylphenol | II. 4-Nitrophenol | KKK. Dibenz(a,h)anthracene | MMMM. Caprolactam | O1. 1,3,5-Trinitrobenzene |
| H. 2,2'-Oxybis(1-chloropropane) | JJ. Dibenzofuran | LLL. Benzo(g,h,i)perylene | NNNN. 2,6-Dichlorophenol | P1. Pentachlorobenzene |
| I. 4-Methylphenol | KK. 2,4-Dinitrotoluene | MMM. Bis(2-Chloroisopropyl)ether | OOOO. 1,2-Diphenylhydrazine | Q1. 4-Aminobiphenyl |
| J. N-Nitroso-di-n-propylamine | LL. Diethylphthalate | NNN. Aniline | PPPP. 3-Methylphenol | R1. 2-Naphthylamine |
| K. Hexachloroethane | MM. 4-Chlorophenyl-phenyl ether | OOO. N-Nitrosodimethylamine | QQQQ. 3&4-Methylphenol | S1. Triphenylene |
| L. Nitrobenzene | NN. Fluorene | PPP. Benzoic Acid | RRRR. 4-Dimethyldibenzothiophene (4MDT) | T1. Octachlorostyrene |
| M. Isophorone | OO. 4-Nitroaniline | QQQ. Benzyl alcohol | SSSS. 2/3-Dimethyldibenzothiophene (4MDT) | U1. Famphur |
| N. 2-Nitrophenol | PP. 4,6-Dinitro-2-methylphenol | RRR. Pyridine | TTTT. 1-Methyldibenzothiophene (1MDT) | V1. 1,4-phenylenediamine |
| O. 2,4-Dimethylphenol | QQ. N-Nitrosodiphenylamine | SSS. Benzidine | UUUU.. 2,3,4,6-Tetrachlorophenol | W1. Methapyrilene |
| P. Bis(2-chloroethoxy)methane | RR. 4-Bromophenyl-phenylether | TTT. 1-Methylnaphthalene | VVVV. 1,2,4,5-Tetrachlorobenzene | X1. Pentachloroethane |
| Q. 2,4-Dichlorophenol | SS. Hexachlorobenzene | UUU. Benzo(b)thiophene | WWWW.. 2-Picoline | Y1. 3,3'-Dimethylbenzidine |
| R. 1,2,4-Trichlorobenzene | TT. Pentachlorophenol | VVV. Benzonaphthothiophene | XXXX. 3-Methylcholanthrene | Z1. o-Toluidine |
| S. Naphthalene | UU. Phenanthrene | WWW. Benzo(e)pyrene | YYYY. a,a-Dimethylphenethylamine | A2. 1-Naphthylamine |
| T. 4-Chloroaniline | VV. Anthracene | XXX. 2,6-Dimethylnaphthalene | ZZZZ. Hexachloropropene | B2. 4-Aminobiphenyl |
| U. Hexachlorobutadiene | WW. Carbazole | YYY. 2,3,5-Trimethylnaphthalene | A1. N-Nitrosodiethylamine | C2. 4-Nitroquinoline-1-oxide |
| V. 4-Chloro-3-methylphenol | XX. Di-n-butylphthalate | ZZZ. Perylene | B1. N-Nitrosodi-n-butylamine | D2. Hexachloropene |
| W. 2-Methylnaphthalene | YY. Fluoranthene | AAAA. Dibenzothiophene | C1. N-Nitrosomethylethylamine | E2. Bis (2-chloro-1-methylethyl) ether |
| X. Hexachlorocyclopentadiene | ZZ. Pyrene | BBBB. Benzo(a)fluoranthene | D1. N-Nitrosomorpholine | F2. Bifenthrin |
| Y. 2,4,6-Trichlorophenol | AAA. Butylbenzylphthalate | CCCC. Benzo(b)fluorene | E1. N-Nitrosopyrrolidine | G2. Cyfluthrin |
| Z. 2,4,5-Trichlorophenol | BBB. 3,3'-Dichlorobenzidine | DDDD. cis/trans-Decalin | F1. Phenacetin | H2. Cypermethrin |
| AA. 2-Chloronaphthalene | CCC. Benzo(a)anthracene | EEEE. 1,1'-Biphenyl | G1. 2-Acetylaminofluorene | I2. Permethrin (cis/trans) |
| BB. 2-Nitroaniline | DDD. Chrysene | FFFF. Retene | H1. Pronamide | J2. 5-Nitro-o-toluidine |

VALIDATION FINDINGS WORKSHEET Initial Calibration Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

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

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

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

| # | Date | Standard ID | Compound | Finding %D (Limit: ≤30.0%) | Associated Samples | Qualifications | |
|---|---------|-------------|-----------------------------|-------------------------------|--------------------|----------------|--|
| | 6/16/20 | 16JUN003 | SSS | 25.2 | All (ND) | J/U/J/A | |
| | | | H | 27.2 | | | |
| | | | BBB | 25.9 | | | |
| | | | Heptachlor | 20.8 | | | |
| | | | R1 | 33.4 | | | |
| | 6/16/20 | 16JUN004 | Aramite | 20.9 | | | |
| | | | p-(Dimethylamino)azobenzene | 23.9 | | | |
| | | | Disilfoton | 22.6 | | | |
| | | | Ethyl methacrylate | 31.2 | | | |
| | | | Ethyl Parathion | 23.9 | | | |
| | | | Methyl parathion | 26.3 | | | |
| | | | M1 | 33.7 | | | |
| | | | Hexachlorophene | 36.1 | | | |
| | | | PCB-1260 | 27.7 | | | |
| | | | | | | | (qual: PCB-1016, 1221,1232,1242, 1248,1254,1260,1262,1268, and Total PCBS) |
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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016927

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-26-1 | 2016927-02 | Water | 06/10/20 |
| MW-26-2 | 2016927-03 | Water | 06/10/20 |
| MW-18-5 | 2016927-04 | Water | 06/10/20 |
| MW-18-3 | 2016927-05 | Water | 06/10/20 |
| MW-18-4 | 2016927-06 | Water | 06/10/20 |
| EB-2-061020 | 2016927-07 | Water | 06/10/20 |
| EB-2-061020MS | 2016927-07MS | Water | 06/10/20 |
| EB-2-061020MSD | 2016927-07MSD | Water | 06/10/20 |
| EB-2-061020DUP | 2016927-07DUP | Water | 06/10/20 |

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

| Date | Lab. Reference/ID | Analyte | %R (Limits) | Associated Samples | Flag | A or P |
|---------|-------------------|---------|--------------|--------------------|------|--------|
| 6/12/20 | CCV6 (13:20) | Lead | 112 (90-110) | MW-26-1 | NA | - |

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|---------|-----------------------|--|
| ICB/CCB | Arsenic | 1.0350 ug/L | MW-26-1 MW-26-2 MW-18-5 MW-18-3 MW-18-4 EB-2-061020 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|---------|---------|------------------------|------------------------------|
| MW-26-2 | Arsenic | 2.1 mg/Kg | 2.1U mg/Kg |
| MW-18-5 | Arsenic | 3.4 mg/Kg | 3.4U mg/Kg |
| MW-18-3 | Arsenic | 1.4 mg/Kg | 1.4U mg/Kg |
| MW-18-4 | Arsenic | 2.1 mg/Kg | 2.1U mg/Kg |

VI. Field Blanks

Sample EB-2-061020 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Collection Date | Analyte | Concentration |
|-------------|-----------------|-------------------|--------------------------|
| EB-2-061020 | 06/10/20 | Calcium Sodium | 0.037 mg/L 0.073 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2016927**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2016927**

| Sample | Analyte | Modified Final Concentration | A or P |
|---------------|----------------|-------------------------------------|---------------|
| MW-26-2 | Arsenic | 2.1U mg/Kg | A |
| MW-18-5 | Arsenic | 3.4U mg/Kg | A |
| MW-18-3 | Arsenic | 1.4U mg/Kg | A |
| MW-18-4 | Arsenic | 2.1U mg/Kg | A |

LDC #: 48646B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/3/2020

SDG #: 2016927

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: DM

2nd Reviewer:

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|-------|--------------|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | SW | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | EB = 6 |
| VII. | Matrix Spike/Matrix Spike Duplicates | A | |
| VIII. | Duplicate sample analysis | A | |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | LCS |
| XI. | Field Duplicates | N | |
| XII. | Internal Standard (ICP-MS) | N | NOT REVIEWED |
| 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-26-1 | 2016927-02 | Water | 06/10/20 |
| 2 | MW-26-2 | 2016927-03 | Water | 06/10/20 |
| 3 | MW-18-5 | 2016927-04 | Water | 06/10/20 |
| 4 | MW-18-3 | 2016927-05 | Water | 06/10/20 |
| 5 | MW-18-4 | 2016927-06 | Water | 06/10/20 |
| 6 | EB-2-061020 | 2016927-07 | Water | 06/10/20 |
| 7 | EB-2-061020MS | 2016927-07MS | Water | 06/10/20 |
| 8 | EB-2-061020MSD | 2016927-07MSD | Water | 06/10/20 |
| 9 | EB-2-061020DUP | 2016927-07DUP | Water | 06/10/20 |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes:

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: _____

2nd Reviewer: _____

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: 1-6

| | | | | | Sample Identification | | | | | | | | | | |
|---------|-----------------------------------|-----------------------------------|--|--------------|-----------------------|-----|-----|-----|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | 2 | 3 | 4 | 5 | | | | | | | |
| As | | | 1.0350 | 5.175 | 2.1 | 3.4 | 1.4 | 2.1 | | | | | | | |
| | | | | | | | | | | | | | | | |
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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.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2016927

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-26-1 | 2016927-02 | Water | 06/10/20 |
| MW-26-2 | 2016927-03 | Water | 06/10/20 |
| MW-18-5 | 2016927-04 | Water | 06/10/20 |
| MW-18-3 | 2016927-05 | Water | 06/10/20 |
| MW-18-4 | 2016927-06 | Water | 06/10/20 |
| EB-2-061020 | 2016927-07 | Water | 06/10/20 |
| MW-26-1MS | 2016927-02MS | Water | 06/10/20 |
| MW-26-1MSD | 2016927-02MSD | Water | 06/10/20 |
| MW-26-1DUP | 2016927-02DUP | Water | 06/10/20 |
| MW-18-5MS | 2016927-04MS | Water | 06/10/20 |
| MW-18-5MSD | 2016927-04MSD | Water | 06/10/20 |
| MW-18-5DUP | 2016927-04DUP | Water | 06/10/20 |

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|----------------------------|---------|--|---|-----------------|--------|
| All samples in SDG 2016927 | pH | 6 days | 2 days | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|---------------------|-----------------------|--------------------|
| ICB/CCB | Hexavalent chromium | 0.043 ug/L | All samples in SDG |

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 with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|---------------------|------------------------|------------------------------|
| MW-26-2 | Hexavalent chromium | 0.00020 ug/L | 0.00020U ug/L |
| MW-18-5 | Hexavalent chromium | 0.000047 ug/L | 0.000047U ug/L |
| EB-2-061020 | Hexavalent chromium | 0.000062 ug/L | 0.000062U ug/L |

V. Field Blanks

Sample EB-2-061020 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|---|--|
| EB-2-061020 | Total dissolved solids Hexavalent chromium pH | 3.3 mg/L 0.000062 mg/L 4.44 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

Due to technical holding times, data were qualified as estimated in six samples.

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

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2016927**

| Sample | Analyte | Flag | A or P | Reason |
|--|---------|-----------------|--------|-------------------------|
| MW-26-1 MW-26-2 MW-18-5 MW-18-3 MW-18-4 EB-2-061020 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2016927**

| Sample | Analyte | Modified Final Concentration | A or P |
|-------------|---------------------|------------------------------|--------|
| MW-26-2 | Hexavalent chromium | 0.00020U ug/L | A |
| MW-18-5 | Hexavalent chromium | 0.000047U ug/L | A |
| EB-2-061020 | Hexavalent chromium | 0.000062U ug/L | A |

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|---------|----------|
| I. | Sample receipt/Technical holding times | A SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW EB=4 | |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | UCS |
| IX. | Field duplicates | N | |
| X. | Sample result verification | N | |
| XI. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-26-1 | 2016927-02 | Water | 06/10/20 |
| 2 | MW-26-2 | 2016927-03 | Water | 06/10/20 |
| 3 | MW-18-5 | 2016927-04 | Water | 06/10/20 |
| 4 | MW-18-3 | 2016927-05 | Water | 06/10/20 |
| 5 | MW-18-4 | 2016927-06 | Water | 06/10/20 |
| 6 | EB-2-061020 | 2016927-07 | Water | 06/10/20 |
| 7 | MW-26-1MS | 2016927-02MS | Water | 06/10/20 |
| 8 | MW-26-1MSD | 2016927-02MSD | Water | 06/10/20 |
| 9 | MW-26-1DUP | 2016927-02DUP | Water | 06/10/20 |
| 10 | MW-18-5MS | 2016927-04MS | Water | 06/10/20 |
| 11 | MW-18-5MSD | 2016927-04MSD | Water | 06/10/20 |
| 12 | MW-18-5DUP | 2016927-04DUP | Water | 06/10/20 |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |

Notes: _____

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: ALL

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | | | | | |
|---------|----------|----------------|--------------------|---------|----------|----------|--|--|--|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (ug/L) | | 2 | 3 | 6 | | | | | | | | | | | |
| Cr6 | | 0.043 | 0.000215 | 0.00020 | 0.000047 | 0.000062 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/10/2020 Soil factor applied NA

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

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | |
|---------|----------|--------------|-----------------------|--|--|--|--|--|--|--|
| | 6 | | No Qualifiers | | | | | | | |
| TDS | 3.3 | | | | | | | | | |
| Cr6 | 0.000062 | | | | | | | | | |
| pH | 4.44 | | | | | | | | | |
| | | | | | | | | | | |

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".

NASA JPL, 2Q2020 - LDC# 48646B

SDG: 2016927

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-150.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | pH | 6/16/2020 | 4.44 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-18-3 | 2016927-05 | pH | 6/16/2020 | 7.92 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-18-4 | 2016927-06 | pH | 6/16/2020 | 8.01 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-18-5 | 2016927-04 | pH | 6/16/2020 | 9.02 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-26-1 | 2016927-02 | pH | 6/16/2020 | 7.56 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-26-2 | 2016927-03 | pH | 6/16/2020 | 8 | Y | y | v | J | 0.05 | 0.05 | pH Units |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|--------------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-160.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | Total Dissolved Solids @ 180 C | 6/12/2020 | 3.3 | Y | y | v j | | 6.7 | 3.3 | mg/L |
| MW-18-3 | 2016927-05 | Total Dissolved Solids @ 180 C | 6/12/2020 | 330 | Y | y | v | | 20 | 10 | mg/L |
| MW-18-4 | 2016927-06 | Total Dissolved Solids @ 180 C | 6/12/2020 | 260 | Y | y | v | | 20 | 10 | mg/L |
| MW-18-5 | 2016927-04 | Total Dissolved Solids @ 180 C | 6/12/2020 | 180 | Y | y | v | | 10 | 5.0 | mg/L |
| MW-26-1 | 2016927-02 | Total Dissolved Solids @ 180 C | 6/12/2020 | 630 | Y | y | v | | 33 | 17 | mg/L |
| MW-26-2 | 2016927-03 | Total Dissolved Solids @ 180 C | 6/12/2020 | 460 | Y | y | v | | 33 | 17 | mg/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-200.7 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | Total Recoverable Iron | 6/17/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-2-061020 | 2016927-07 | Total Recoverable Potassium | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| EB-2-061020 | 2016927-07 | Total Recoverable Sodium | 6/17/2020 | 0.073 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| EB-2-061020 | 2016927-07 | Total Recoverable Magnesium | 6/17/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| EB-2-061020 | 2016927-07 | Total Recoverable Calcium | 6/17/2020 | 0.037 | Y | y | v j | | 0.10 | 0.014 | mg/L |
| MW-18-3 | 2016927-05 | Total Recoverable Magnesium | 6/17/2020 | 16 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-18-3 | 2016927-05 | Total Recoverable Sodium | 6/17/2020 | 22 | Y | y | v | | 0.50 | 0.051 | mg/L |

SDG: 2016927

Analytical Method EPA-200.7

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-----------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| MW-18-3 | 2016927-05 | Total Recoverable Potassium | 6/17/2020 | 2.6 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-18-3 | 2016927-05 | Total Recoverable Calcium | 6/17/2020 | 60 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-18-3 | 2016927-05 | Total Recoverable Iron | 6/17/2020 | 48 | Y | y | v j | | 50 | 30 | ug/L |
| MW-18-4 | 2016927-06 | Total Recoverable Iron | 6/17/2020 | 74 | Y | y | v | | 50 | 30 | ug/L |
| MW-18-4 | 2016927-06 | Total Recoverable Potassium | 6/17/2020 | 1.2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-18-4 | 2016927-06 | Total Recoverable Calcium | 6/17/2020 | 38 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-18-4 | 2016927-06 | Total Recoverable Magnesium | 6/17/2020 | 10 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-18-4 | 2016927-06 | Total Recoverable Sodium | 6/17/2020 | 29 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-18-5 | 2016927-04 | Total Recoverable Potassium | 6/17/2020 | 1.3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-18-5 | 2016927-04 | Total Recoverable Calcium | 6/17/2020 | 4.9 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-18-5 | 2016927-04 | Total Recoverable Sodium | 6/17/2020 | 56 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-18-5 | 2016927-04 | Total Recoverable Iron | 6/17/2020 | 38 | Y | y | v j | | 50 | 30 | ug/L |
| MW-18-5 | 2016927-04 | Total Recoverable Magnesium | 6/17/2020 | 2.8 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-26-1 | 2016927-02 | Total Recoverable Sodium | 6/17/2020 | 34 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-26-1 | 2016927-02 | Total Recoverable Magnesium | 6/17/2020 | 38 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-26-1 | 2016927-02 | Total Recoverable Calcium | 6/17/2020 | 110 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-26-1 | 2016927-02 | Total Recoverable Iron | 6/17/2020 | 180 | Y | y | v | | 50 | 30 | ug/L |
| MW-26-1 | 2016927-02 | Total Recoverable Potassium | 6/17/2020 | 3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-26-2 | 2016927-03 | Total Recoverable Calcium | 6/17/2020 | 62 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-26-2 | 2016927-03 | Total Recoverable Magnesium | 6/17/2020 | 29 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-26-2 | 2016927-03 | Total Recoverable Sodium | 6/17/2020 | 33 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-26-2 | 2016927-03 | Total Recoverable Potassium | 6/17/2020 | 2.5 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-26-2 | 2016927-03 | Total Recoverable Iron | 6/17/2020 | 240 | Y | y | v | | 50 | 30 | ug/L |

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| Analytical Method | | EPA-200.8 | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| EB-2-061020 | 2016927-07 | Total Recoverable Chromium | 6/18/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| EB-2-061020 | 2016927-07 | Total Recoverable Arsenic | 6/18/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-18-3 | 2016927-05 | Total Recoverable Arsenic | 6/17/2020 | 1.4 | Y | y | v j | U | 2.0 | 0.70 | ug/L |
| MW-18-3 | 2016927-05 | Total Recoverable Chromium | 6/17/2020 | 1.2 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-18-3 | 2016927-05 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-18-4 | 2016927-06 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-18-4 | 2016927-06 | Total Recoverable Arsenic | 6/17/2020 | 2.1 | Y | y | v | U | 2.0 | 0.70 | ug/L |
| MW-18-4 | 2016927-06 | Total Recoverable Chromium | 6/17/2020 | 2.4 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-18-5 | 2016927-04 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-18-5 | 2016927-04 | Total Recoverable Chromium | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-18-5 | 2016927-04 | Total Recoverable Arsenic | 6/17/2020 | 3.4 | Y | y | v | U | 2.0 | 0.70 | ug/L |
| MW-26-1 | 2016927-02 | Total Recoverable Arsenic | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-26-1 | 2016927-02 | Total Recoverable Chromium | 6/12/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-26-1 | 2016927-02 | Total Recoverable Lead | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-26-2 | 2016927-03 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-26-2 | 2016927-03 | Total Recoverable Chromium | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-26-2 | 2016927-03 | Total Recoverable Arsenic | 6/17/2020 | 2.1 | Y | y | v | U | 2.0 | 0.70 | 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-2-061020 | 2016927-07 | Hexavalent Chromium | 6/11/2020 | ##### | Y | y | v j | U | 0.0002 | 0.00003 | mg/L |
| MW-18-3 | 2016927-05 | Hexavalent Chromium | 6/11/2020 | 0.0016 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-18-4 | 2016927-06 | Hexavalent Chromium | 6/11/2020 | 0.0028 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-18-5 | 2016927-04 | Hexavalent Chromium | 6/11/2020 | ##### | Y | y | v j | U | 0.0002 | 0.00003 | mg/L |

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| 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-26-1 | 2016927-02 | Hexavalent Chromium | 6/11/2020 | 0.00034 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-26-2 | 2016927-03 | Hexavalent Chromium | 6/11/2020 | 0.0002 | Y | y | v | U | 0.0002 | 0.00003 | 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 |
| EB-2-061020 | 2016927-07 | Sulfate | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.14 | mg/L |
| EB-2-061020 | 2016927-07 | Nitrate as N | 6/11/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| EB-2-061020 | 2016927-07 | Chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | mg/L |
| MW-18-3 | 2016927-05 | Sulfate | 6/11/2020 | 36 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-18-3 | 2016927-05 | Nitrate as N | 6/11/2020 | 0.82 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-18-3 | 2016927-05 | Chloride | 6/11/2020 | 17 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-18-4 | 2016927-06 | Nitrate as N | 6/11/2020 | 1.2 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-18-4 | 2016927-06 | Chloride | 6/11/2020 | 10 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-18-4 | 2016927-06 | Sulfate | 6/11/2020 | 23 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-18-5 | 2016927-04 | Sulfate | 6/11/2020 | 2.2 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-18-5 | 2016927-04 | Nitrate as N | 6/11/2020 | 0.03 | Y | y | v j | | 0.10 | 0.024 | mg/L |
| MW-18-5 | 2016927-04 | Chloride | 6/11/2020 | 9.2 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-26-1 | 2016927-02 | Chloride | 6/11/2020 | 88 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-26-1 | 2016927-02 | Sulfate | 6/11/2020 | 100 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-26-1 | 2016927-02 | Nitrate as N | 6/11/2020 | 5.6 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-26-2 | 2016927-03 | Chloride | 6/11/2020 | 61 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-26-2 | 2016927-03 | Nitrate as N | 6/11/2020 | 6.2 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-26-2 | 2016927-03 | Sulfate | 6/11/2020 | 76 | Y | y | v | | 1.0 | 0.14 | 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 |

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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 |
| EB-2-061020 | 2016927-07 | Perchlorate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.76 | ug/L |
| MW-18-3 | 2016927-05 | Perchlorate | 6/17/2020 | 1.4 | Y | y | v j | | 4.0 | 0.76 | ug/L |
| MW-18-4 | 2016927-06 | Perchlorate | 6/17/2020 | 16 | Y | y | v | | 4.0 | 0.76 | ug/L |
| MW-18-5 | 2016927-04 | Perchlorate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.76 | ug/L |
| MW-26-1 | 2016927-02 | Perchlorate | 6/17/2020 | 2.1 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-26-2 | 2016927-03 | Perchlorate | 6/17/2020 | 3.5 | Y | y | v j | | 4.0 | 0.76 | ug/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-353.2 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-18-3 | 2016927-05 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-18-4 | 2016927-06 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-18-5 | 2016927-04 | Nitrite as N | 6/11/2020 | 0.019 | Y | y | v j | | 0.050 | 0.010 | mg/L |
| MW-26-1 | 2016927-02 | Nitrite as N | 6/11/2020 | 0.097 | Y | y | v | | 0.050 | 0.010 | mg/L |
| MW-26-2 | 2016927-03 | Nitrite as N | 6/11/2020 | 0.08 | Y | y | v | | 0.050 | 0.010 | mg/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-524.2 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-2-061020 | 2016927-07 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-2-061020 | 2016927-07 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-2-061020 | 2016927-07 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| EB-2-061020 | 2016927-07 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| EB-2-061020 | 2016927-07 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-2-061020 | 2016927-07 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-2-061020 | 2016927-07 | Allyl chloride | 6/11/2020 | 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 |
| EB-2-061020 | 2016927-07 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| EB-2-061020 | 2016927-07 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-2-061020 | 2016927-07 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| EB-2-061020 | 2016927-07 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-2-061020 | 2016927-07 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-2-061020 | 2016927-07 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-2-061020 | 2016927-07 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-2-061020 | 2016927-07 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-2-061020 | 2016927-07 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-2-061020 | 2016927-07 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-2-061020 | 2016927-07 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| EB-2-061020 | 2016927-07 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-2-061020 | 2016927-07 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-2-061020 | 2016927-07 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-2-061020 | 2016927-07 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| EB-2-061020 | 2016927-07 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-2-061020 | 2016927-07 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| EB-2-061020 | 2016927-07 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-2-061020 | 2016927-07 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| EB-2-061020 | 2016927-07 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-2-061020 | 2016927-07 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-2-061020 | 2016927-07 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-2-061020 | 2016927-07 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-2-061020 | 2016927-07 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-2-061020 | 2016927-07 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-2-061020 | 2016927-07 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-2-061020 | 2016927-07 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-2-061020 | 2016927-07 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-2-061020 | 2016927-07 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-2-061020 | 2016927-07 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-2-061020 | 2016927-07 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-2-061020 | 2016927-07 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-2-061020 | 2016927-07 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-2-061020 | 2016927-07 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| EB-2-061020 | 2016927-07 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-2-061020 | 2016927-07 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-2-061020 | 2016927-07 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-2-061020 | 2016927-07 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-2-061020 | 2016927-07 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-2-061020 | 2016927-07 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-2-061020 | 2016927-07 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-2-061020 | 2016927-07 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| EB-2-061020 | 2016927-07 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-2-061020 | 2016927-07 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-2-061020 | 2016927-07 | Dibromochloromethane | 6/11/2020 | 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 |
| EB-2-061020 | 2016927-07 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-2-061020 | 2016927-07 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-2-061020 | 2016927-07 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-2-061020 | 2016927-07 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-18-3 | 2016927-05 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-3 | 2016927-05 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-18-3 | 2016927-05 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-18-3 | 2016927-05 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-18-3 | 2016927-05 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-18-3 | 2016927-05 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-18-3 | 2016927-05 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-18-3 | 2016927-05 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-3 | 2016927-05 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-18-3 | 2016927-05 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-18-3 | 2016927-05 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-18-3 | 2016927-05 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-3 | 2016927-05 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-3 | 2016927-05 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-18-3 | 2016927-05 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-3 | 2016927-05 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-3 | 2016927-05 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-3 | 2016927-05 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-3 | 2016927-05 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-3 | 2016927-05 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-3 | 2016927-05 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-3 | 2016927-05 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-3 | 2016927-05 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-3 | 2016927-05 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-3 | 2016927-05 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-3 | 2016927-05 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-3 | 2016927-05 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-18-3 | 2016927-05 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-18-3 | 2016927-05 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-18-3 | 2016927-05 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-18-3 | 2016927-05 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-18-3 | 2016927-05 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-18-3 | 2016927-05 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-18-3 | 2016927-05 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-18-3 | 2016927-05 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-18-3 | 2016927-05 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-18-3 | 2016927-05 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-18-3 | 2016927-05 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-3 | 2016927-05 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-18-3 | 2016927-05 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-3 | 2016927-05 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-3 | 2016927-05 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-3 | 2016927-05 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-18-3 | 2016927-05 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-3 | 2016927-05 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-18-3 | 2016927-05 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-3 | 2016927-05 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-3 | 2016927-05 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-3 | 2016927-05 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-18-3 | 2016927-05 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-18-3 | 2016927-05 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-3 | 2016927-05 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-3 | 2016927-05 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-3 | 2016927-05 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-3 | 2016927-05 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-3 | 2016927-05 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-3 | 2016927-05 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-3 | 2016927-05 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-3 | 2016927-05 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-3 | 2016927-05 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-18-3 | 2016927-05 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-3 | 2016927-05 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-3 | 2016927-05 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-3 | 2016927-05 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-3 | 2016927-05 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-3 | 2016927-05 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-3 | 2016927-05 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-3 | 2016927-05 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-3 | 2016927-05 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-3 | 2016927-05 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-3 | 2016927-05 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-4 | 2016927-06 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-4 | 2016927-06 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-4 | 2016927-06 | Carbon tetrachloride | 6/11/2020 | 1.1 | Y | y | v | | 0.50 | 0.17 | ug/L |
| MW-18-4 | 2016927-06 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-4 | 2016927-06 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-4 | 2016927-06 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-18-4 | 2016927-06 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-18-4 | 2016927-06 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-4 | 2016927-06 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-18-4 | 2016927-06 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | Chloroform | 6/11/2020 | 0.58 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-18-4 | 2016927-06 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-4 | 2016927-06 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-18-4 | 2016927-06 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-4 | 2016927-06 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-18-4 | 2016927-06 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-18-4 | 2016927-06 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-18-4 | 2016927-06 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-18-4 | 2016927-06 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-18-4 | 2016927-06 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-18-4 | 2016927-06 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-18-4 | 2016927-06 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-4 | 2016927-06 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-4 | 2016927-06 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-4 | 2016927-06 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | Trichloroethene | 6/11/2020 | 0.67 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-18-4 | 2016927-06 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-18-4 | 2016927-06 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | Tetrachloroethene | 6/11/2020 | 0.53 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-18-4 | 2016927-06 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-18-4 | 2016927-06 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-18-4 | 2016927-06 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-18-4 | 2016927-06 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-4 | 2016927-06 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-18-4 | 2016927-06 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-18-4 | 2016927-06 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-18-4 | 2016927-06 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-18-4 | 2016927-06 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-18-4 | 2016927-06 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-18-4 | 2016927-06 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-4 | 2016927-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-4 | 2016927-06 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-4 | 2016927-06 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-4 | 2016927-06 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-4 | 2016927-06 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-4 | 2016927-06 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-4 | 2016927-06 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-4 | 2016927-06 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-4 | 2016927-06 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-4 | 2016927-06 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-18-4 | 2016927-06 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-4 | 2016927-06 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-4 | 2016927-06 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-18-5 | 2016927-04 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-5 | 2016927-04 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-5 | 2016927-04 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-5 | 2016927-04 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-5 | 2016927-04 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-5 | 2016927-04 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-5 | 2016927-04 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-5 | 2016927-04 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-18-5 | 2016927-04 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-5 | 2016927-04 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-5 | 2016927-04 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-18-5 | 2016927-04 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-5 | 2016927-04 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-5 | 2016927-04 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-5 | 2016927-04 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-5 | 2016927-04 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-18-5 | 2016927-04 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-5 | 2016927-04 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-5 | 2016927-04 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-5 | 2016927-04 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-5 | 2016927-04 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-18-5 | 2016927-04 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-5 | 2016927-04 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-5 | 2016927-04 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-18-5 | 2016927-04 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-5 | 2016927-04 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-5 | 2016927-04 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-18-5 | 2016927-04 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-18-5 | 2016927-04 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-18-5 | 2016927-04 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-18-5 | 2016927-04 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-5 | 2016927-04 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-5 | 2016927-04 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-5 | 2016927-04 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-5 | 2016927-04 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-5 | 2016927-04 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-18-5 | 2016927-04 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-18-5 | 2016927-04 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-5 | 2016927-04 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-5 | 2016927-04 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-18-5 | 2016927-04 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-18-5 | 2016927-04 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-18-5 | 2016927-04 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-18-5 | 2016927-04 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-18-5 | 2016927-04 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-18-5 | 2016927-04 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-18-5 | 2016927-04 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-18-5 | 2016927-04 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-5 | 2016927-04 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-5 | 2016927-04 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-5 | 2016927-04 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-5 | 2016927-04 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-18-5 | 2016927-04 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-5 | 2016927-04 | Styrene | 6/11/2020 | 0.12 | Y | y | v j | | 0.50 | 0.12 | ug/L |
| MW-18-5 | 2016927-04 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-5 | 2016927-04 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-5 | 2016927-04 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-5 | 2016927-04 | Carbon disulfide | 6/11/2020 | 0.79 | Y | y | v j | | 1.0 | 0.48 | ug/L |
| MW-18-5 | 2016927-04 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-5 | 2016927-04 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-5 | 2016927-04 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-5 | 2016927-04 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-18-5 | 2016927-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-5 | 2016927-04 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-5 | 2016927-04 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-5 | 2016927-04 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-5 | 2016927-04 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-5 | 2016927-04 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-18-5 | 2016927-04 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-26-1 | 2016927-02 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-26-1 | 2016927-02 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-26-1 | 2016927-02 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-26-1 | 2016927-02 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-26-1 | 2016927-02 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-1 | 2016927-02 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-26-1 | 2016927-02 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-1 | 2016927-02 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-1 | 2016927-02 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-26-1 | 2016927-02 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-1 | 2016927-02 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-26-1 | 2016927-02 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-26-1 | 2016927-02 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-26-1 | 2016927-02 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-26-1 | 2016927-02 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-26-1 | 2016927-02 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-26-1 | 2016927-02 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-26-1 | 2016927-02 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-26-1 | 2016927-02 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-26-1 | 2016927-02 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-1 | 2016927-02 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-26-1 | 2016927-02 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-1 | 2016927-02 | Chloroform | 6/11/2020 | 0.3 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-26-1 | 2016927-02 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-26-1 | 2016927-02 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-26-1 | 2016927-02 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-26-1 | 2016927-02 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-26-1 | 2016927-02 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-26-1 | 2016927-02 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-1 | 2016927-02 | 1,3-Dichlorobenzene | 6/11/2020 | 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-26-1 | 2016927-02 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-1 | 2016927-02 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-26-1 | 2016927-02 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-26-1 | 2016927-02 | Tetrachloroethene | 6/11/2020 | 0.43 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-26-1 | 2016927-02 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-26-1 | 2016927-02 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-26-1 | 2016927-02 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-26-1 | 2016927-02 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-26-1 | 2016927-02 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-26-1 | 2016927-02 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-26-1 | 2016927-02 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-26-1 | 2016927-02 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-26-1 | 2016927-02 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-26-1 | 2016927-02 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-26-1 | 2016927-02 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-1 | 2016927-02 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-1 | 2016927-02 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-1 | 2016927-02 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-1 | 2016927-02 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-1 | 2016927-02 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-26-1 | 2016927-02 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-26-1 | 2016927-02 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-1 | 2016927-02 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

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Analytical Method EPA-524.2

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-----------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| MW-26-1 | 2016927-02 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-1 | 2016927-02 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-26-1 | 2016927-02 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-26-1 | 2016927-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-1 | 2016927-02 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-1 | 2016927-02 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-1 | 2016927-02 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-26-1 | 2016927-02 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-1 | 2016927-02 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-26-1 | 2016927-02 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-1 | 2016927-02 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-26-1 | 2016927-02 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-26-1 | 2016927-02 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-26-1 | 2016927-02 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-26-1 | 2016927-02 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-26-1 | 2016927-02 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-2 | 2016927-03 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-2 | 2016927-03 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-26-2 | 2016927-03 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-26-2 | 2016927-03 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-26-2 | 2016927-03 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-2 | 2016927-03 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-26-2 | 2016927-03 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-2 | 2016927-03 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-26-2 | 2016927-03 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-2 | 2016927-03 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-26-2 | 2016927-03 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-26-2 | 2016927-03 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-26-2 | 2016927-03 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-26-2 | 2016927-03 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-2 | 2016927-03 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-26-2 | 2016927-03 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-2 | 2016927-03 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-2 | 2016927-03 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-26-2 | 2016927-03 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-26-2 | 2016927-03 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-26-2 | 2016927-03 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-2 | 2016927-03 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-26-2 | 2016927-03 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| MW-26-2 | 2016927-03 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-26-2 | 2016927-03 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-26-2 | 2016927-03 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-26-2 | 2016927-03 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-26-2 | 2016927-03 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-26-2 | 2016927-03 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-26-2 | 2016927-03 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-2 | 2016927-03 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | Chloroform | 6/11/2020 | 1.5 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-26-2 | 2016927-03 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-26-2 | 2016927-03 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-26-2 | 2016927-03 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-26-2 | 2016927-03 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-26-2 | 2016927-03 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-26-2 | 2016927-03 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-2 | 2016927-03 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-26-2 | 2016927-03 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-26-2 | 2016927-03 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-26-2 | 2016927-03 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-26-2 | 2016927-03 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-26-2 | 2016927-03 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-26-2 | 2016927-03 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-26-2 | 2016927-03 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-26-2 | 2016927-03 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-26-2 | 2016927-03 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-26-2 | 2016927-03 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-26-2 | 2016927-03 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-26-2 | 2016927-03 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-26-2 | 2016927-03 | Ethyl methacrylate | 6/11/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-26-2 | 2016927-03 | 1,2,4-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-26-2 | 2016927-03 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-26-2 | 2016927-03 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-26-2 | 2016927-03 | n-Propylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-26-2 | 2016927-03 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-26-2 | 2016927-03 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-2 | 2016927-03 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | Tetrachloroethene | 6/11/2020 | 1.7 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-26-2 | 2016927-03 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-26-2 | 2016927-03 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-2 | 2016927-03 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-26-2 | 2016927-03 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-2 | 2016927-03 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-26-2 | 2016927-03 | Trichloroethene | 6/11/2020 | 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-26-2 | 2016927-03 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-26-2 | 2016927-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-26-2 | 2016927-03 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-26-2 | 2016927-03 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-26-2 | 2016927-03 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | 1,2,3-Trichloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-2-061020 | 2016927-01 | trans-1,4-Dichloro-2-butene | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| TB-2-061020 | 2016927-01 | Carbon disulfide | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-2-061020 | 2016927-01 | t-Butyl alcohol | 6/11/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-2-061020 | 2016927-01 | t-Amyl Methyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-2-061020 | 2016927-01 | Allyl chloride | 6/11/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-2-061020 | 2016927-01 | Acrylonitrile | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-2-061020 | 2016927-01 | Acetone | 6/11/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-2-061020 | 2016927-01 | Vinyl chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-2-061020 | 2016927-01 | 1,3,5-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1,2,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-2-061020 | 2016927-01 | 2-Hexanone | 6/11/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-2-061020 | 2016927-01 | Trichlorofluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | Trichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1,2-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1,1-Trichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2,4-Trichlorobenzene | 6/11/2020 | 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-2-061020 | 2016927-01 | 1,2,3-Trichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-2-061020 | 2016927-01 | Toluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | Tetrachloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2,4-Trimethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | p- & m-Xylenes | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-2-061020 | 2016927-01 | 2-Nitropropane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | Nitrobenzene | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | Methyl acrylate | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | 1,1-Dichloropropanone | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | 1-Chlorobutane | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | Chloroacetonitrile | 6/11/2020 | 0 | Y | y | v | | | | ug/L |
| TB-2-061020 | 2016927-01 | 4-Bromofluorobenzene (Surrogate) | 6/11/2020 | 10 | Y | y | v s | | | | ug/L |
| TB-2-061020 | 2016927-01 | Toluene-d8 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| TB-2-061020 | 2016927-01 | Diethyl ether | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| TB-2-061020 | 2016927-01 | o-Xylene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-2-061020 | 2016927-01 | Ethyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-2-061020 | 2016927-01 | Tetrahydrofuran | 6/11/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-2-061020 | 2016927-01 | Propionitrile | 6/11/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-2-061020 | 2016927-01 | Pentachloroethane | 6/11/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| TB-2-061020 | 2016927-01 | Methyl methacrylate | 6/11/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-2-061020 | 2016927-01 | Methyl isobutyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-2-061020 | 2016927-01 | Methyl iodide | 6/11/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-2-061020 | 2016927-01 | Methyl ethyl ketone | 6/11/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-2-061020 | 2016927-01 | Methacrylonitrile | 6/11/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-2-061020 | 2016927-01 | Ethyl methacrylate | 6/11/2020 | 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 |
| TB-2-061020 | 2016927-01 | 1,2-Dichloroethane-d4 (Surrogate) | 6/11/2020 | 9.8 | Y | y | v s | | | | ug/L |
| TB-2-061020 | 2016927-01 | Carbon tetrachloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | 1,3-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-2-061020 | 2016927-01 | Dibromomethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2-Dibromoethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2-Dibromo-3-chloropropane | 6/11/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-2-061020 | 2016927-01 | Dibromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-2-061020 | 2016927-01 | 4-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-2-061020 | 2016927-01 | Bromochloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-2-061020 | 2016927-01 | Chloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-2-061020 | 2016927-01 | 1,4-Dichlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-2-061020 | 2016927-01 | Chlorobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | 2-Chlorotoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | tert-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-2-061020 | 2016927-01 | sec-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-2-061020 | 2016927-01 | n-Butylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-2-061020 | 2016927-01 | Bromomethane | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| TB-2-061020 | 2016927-01 | Bromoform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-2-061020 | 2016927-01 | Bromodichloromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1,1,2-Tetrachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-2-061020 | 2016927-01 | Hexachloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-2-061020 | 2016927-01 | Bromobenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-2-061020 | 2016927-01 | Chloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | n-Propylbenzene | 6/11/2020 | 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 |
| TB-2-061020 | 2016927-01 | Benzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-2-061020 | 2016927-01 | Chloroform | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | Styrene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-2-061020 | 2016927-01 | Naphthalene | 6/11/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| TB-2-061020 | 2016927-01 | Methyl t-butyl ether | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | Methylene chloride | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-2-061020 | 2016927-01 | p-Isopropyltoluene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | Isopropylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | Hexachlorobutadiene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-2-061020 | 2016927-01 | Ethylbenzene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-2-061020 | 2016927-01 | trans-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-2-061020 | 2016927-01 | cis-1,3-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1-Dichloropropene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-2-061020 | 2016927-01 | 2,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-2-061020 | 2016927-01 | 1,3-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2-Dichloropropane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-2-061020 | 2016927-01 | trans-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | cis-1,2-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-2-061020 | 2016927-01 | 1,1-Dichloroethene | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-2-061020 | 2016927-01 | 1,2-Dichloroethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-2-061020 | 2016927-01 | Dichlorodifluoromethane | 6/11/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-8270C | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | 2-Toluidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.41 | ug/L |
| MW-18-4 | 2016927-06 | Thionazin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.38 | ug/L |
| MW-18-4 | 2016927-06 | 2,3,4,6-Tetrachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-18-4 | 2016927-06 | 2,3,4,5-Tetrachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-18-4 | 2016927-06 | 1,2,4,5-Tetrachlorobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Sulfotep | 6/17/2020 | 10 | Y | n | u | | 10 | 0.23 | ug/L |
| MW-18-4 | 2016927-06 | Safrole | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-18-4 | 2016927-06 | 4-Chloro-1,2-phenylenediamine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Toxaphene | 6/17/2020 | 100 | Y | n | u | | 100 | 50 | ug/L |
| MW-18-4 | 2016927-06 | Demeton-S | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Pyridine | 6/17/2020 | 10 | Y | n | u | | 10 | 1.6 | ug/L |
| MW-18-4 | 2016927-06 | 4-Chloro-1,3-phenylenediamine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Coumaphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | p-Cresidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Crotoxyphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Dibenzo[a,e]pyrene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Demeton-O | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | o,o,o-Triethylphosphorothioate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-18-4 | 2016927-06 | 2,4-Diaminotoluene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Dibenz[a,j]acridine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Dichlone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 2-Cyclohexyl-4,6-dinitrophenol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Anilazine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Sulfallate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

SDG: 2016927

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Dichlorvos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | cis-Diallate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 2.4 | ug/L |
| MW-18-4 | 2016927-06 | Tris(2,3-dibromopropyl) phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Trimethyl phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 2,4,5-Trimethylaniline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Trifluralin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Toluene 2,4-diisocyanate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Thiophenol (Benzenethiol) | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Prowl | 6/17/2020 | 10 | Y | n | u | | 10 | 0.83 | ug/L |
| MW-18-4 | 2016927-06 | Tetrachlorvinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1,3,5-Trinitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 1.4 | ug/L |
| MW-18-4 | 2016927-06 | 3-Amino-9-ethylcarbazole | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 2-Aminoanthraquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1-Acetyl-2-thiourea | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | p-Terphenyl-d14 (Surrogate) | 6/17/2020 | 14 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | 2,4,6-Tribromophenol (Surrogate) | 6/17/2020 | 44 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | 2-Fluorobiphenyl (Surrogate) | 6/17/2020 | 32 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | Nitrobenzene-d5 (Surrogate) | 6/17/2020 | 38 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | Phenol-d5 (Surrogate) | 6/17/2020 | 15 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | 2-Fluorophenol (Surrogate) | 6/17/2020 | 29 | Y | y | v s | | | | ug/L |
| MW-18-4 | 2016927-06 | Tris(hydroxymethyl)nitromethane | 6/17/2020 | 50 | Y | n | u | | 50 | 5.0 | ug/L |
| MW-18-4 | 2016927-06 | TEPP | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Phenobarbital | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Mexacarbate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Mirex | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Monocrotophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Naled | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Nicotine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 5-Nitroacenaphthene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 5-Nitro-o-anisidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 4-Nitrobiphenyl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Nitrophen | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Resorcinol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 4,4'-Oxydianiline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 4,4'-Methylenebis(2-chloroaniline) | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Phosalone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Phosmet | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Phosphamidon | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Phthalic anhydride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Piperonyl sulfoxide | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Propylthiouracil | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Pronamide | 6/17/2020 | 10 | Y | n | u | | 10 | 0.22 | ug/L |
| MW-18-4 | 2016927-06 | Strychnine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Propyleneglycol monomethyl ether acetate | 6/17/2020 | 10 | Y | n | u | | 10 | 3.7 | ug/L |
| MW-18-4 | 2016927-06 | Terbufos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Octamethylpyrophosphoramidate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Ethyl carbamate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Diethylstilbestrol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Diethyl sulfate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Dihydrosafrole | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 3,3'-Dimethoxybenzidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dinitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1,4-Dinitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Dinocap | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Dioxathion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 5,5-Diphenylhydantoin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Endrin ketone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Mevinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Ethion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 4,4'-Methylenebis[N,N-dimethylaniline] | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Fensulfothion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Fenthion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Fluchloralin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Hexamethylphosphoramide | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Hydroquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Leptophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Malathion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Maleic Anhydride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Mestranol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Dicrotophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | EPN | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Endrin aldehyde | 6/17/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-18-4 | 2016927-06 | 7,12-Dimethylbenz[a]anthracene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-18-4 | 2016927-06 | Dimethyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Di-n-butyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2,4-Dinitrotoluene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-18-4 | 2016927-06 | 2,6-Dinitrotoluene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Di-n-octyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Diphenylhydrazine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Endosulfan I | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.31 | ug/L |
| MW-18-4 | 2016927-06 | Endosulfan II | 6/17/2020 | 10 | Y | n | u | | 10 | 0.30 | ug/L |
| MW-18-4 | 2016927-06 | Dieldrin | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.39 | ug/L |
| MW-18-4 | 2016927-06 | Endrin | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.38 | ug/L |
| MW-18-4 | 2016927-06 | bis(2-Chloroisopropyl)ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.28 | ug/L |
| MW-18-4 | 2016927-06 | Fluorene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 3,3-Dichlorobenzidine | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-18-4 | 2016927-06 | Heptachlor epoxide | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-18-4 | 2016927-06 | Hexachlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.25 | ug/L |
| MW-18-4 | 2016927-06 | Hexachlorobutadiene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Hexachlorocyclopentadiene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-18-4 | 2016927-06 | Hexachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Indeno[1,2,3-cd]pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.29 | ug/L |
| MW-18-4 | 2016927-06 | Endosulfan sulfate | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.23 | ug/L |
| MW-18-4 | 2016927-06 | 4-Chlorophenyl phenyl ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Prometryn | 6/17/2020 | 10 | Y | n | u | | 10 | 1.7 | ug/L |
| MW-18-4 | 2016927-06 | beta-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Tri-p-tolyl phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | gamma-BHC (Lindane) | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | bis(2-Chloroethoxy)methane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | bis(2-Chloroethyl) ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-18-4 | 2016927-06 | 2-Naphthylamine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 1.3 | ug/L |
| MW-18-4 | 2016927-06 | bis(2-Ethylhexyl)phthalate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 4-Bromophenyl phenyl ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Diethyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2-Chloronaphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Naphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Chrysene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 4,4'-DDD | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-18-4 | 2016927-06 | 4,4'-DDE | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.24 | ug/L |
| MW-18-4 | 2016927-06 | 4,4'-DDT | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-18-4 | 2016927-06 | Dibenzo[a,h]anthracene | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.34 | ug/L |
| MW-18-4 | 2016927-06 | Dibenzofuran | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 1,2-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 1,3-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 1,4-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.27 | ug/L |
| MW-18-4 | 2016927-06 | 4-Chloroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-18-4 | 2016927-06 | Caprolactam | 6/17/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-18-4 | 2016927-06 | Phenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | 2,4,5-Trichlorophenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2,4,6-Trichlorophenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Acetophenone | 6/17/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-18-4 | 2016927-06 | 2-Acetylaminofluorene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.78 | ug/L |
| MW-18-4 | 2016927-06 | Acrolein, dimethyl acetal | 6/17/2020 | 40 | Y | n | u | | 40 | 6.1 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | 4-Aminobiphenyl | 6/17/2020 | 20 | Y | n | u | | 20 | 0.35 | ug/L |
| MW-18-4 | 2016927-06 | Aramite | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.35 | ug/L |
| MW-18-4 | 2016927-06 | Benzaldehyde | 6/17/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-18-4 | 2016927-06 | Isophorone | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 1,1-Biphenyl | 6/17/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-18-4 | 2016927-06 | 2-Nitrophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Carbazole | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | cis-Chlordane | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 0.59 | ug/L |
| MW-18-4 | 2016927-06 | trans-Chlordane | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.55 | ug/L |
| MW-18-4 | 2016927-06 | Chlorobenzilate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-18-4 | 2016927-06 | 1-Chloronaphthalene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-18-4 | 2016927-06 | Dimethoate | 6/17/2020 | 20 | Y | n | u | | 20 | 0.99 | ug/L |
| MW-18-4 | 2016927-06 | 2,6-Dichlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.28 | ug/L |
| MW-18-4 | 2016927-06 | Diallate | 6/17/2020 | 10 | Y | n | u | | 10 | 3.0 | ug/L |
| MW-18-4 | 2016927-06 | trans-Diallate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.56 | ug/L |
| MW-18-4 | 2016927-06 | Benefin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.88 | ug/L |
| MW-18-4 | 2016927-06 | 1,2,4-Trichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | p-(Dimethylamino)azobenzene | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.27 | ug/L |
| MW-18-4 | 2016927-06 | Heptachlor | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2-Nitroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 3-Nitroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-18-4 | 2016927-06 | 4-Nitroaniline | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.38 | ug/L |
| MW-18-4 | 2016927-06 | Nitrobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosodimethylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 1.2 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosodi-N-propylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | N-Nitrosodiphenylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Pentachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-18-4 | 2016927-06 | Pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-18-4 | 2016927-06 | 4-Nitrophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-18-4 | 2016927-06 | 4-Chloro-3-methylphenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2-Chlorophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2,4-Dichlorophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-18-4 | 2016927-06 | 2,4-Dimethylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 4,6-Dinitro-2-methylphenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.24 | ug/L |
| MW-18-4 | 2016927-06 | 2,4-Dinitrophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 2-Methylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 3- & 4-Methylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-18-4 | 2016927-06 | Total Methylphenol | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.60 | ug/L |
| MW-18-4 | 2016927-06 | 2-Methylnaphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Phenanthrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Methyl methacrylate | 6/17/2020 | 40 | Y | n | u | | 40 | 3.8 | ug/L |
| MW-18-4 | 2016927-06 | 5-Chloro-2-methylaniline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosodibutylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-18-4 | 2016927-06 | 4-Nitroquinoline 1-oxide | 6/17/2020 | 20 | Y | n | u | | 20 | 0.95 | ug/L |
| MW-18-4 | 2016927-06 | 5-Nitro-o-toluidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.85 | ug/L |
| MW-18-4 | 2016927-06 | 1-Naphthylamine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.30 | ug/L |
| MW-18-4 | 2016927-06 | 1,4-Naphthoquinone | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.87 | ug/L |
| MW-18-4 | 2016927-06 | N-Methyl-2-pyrrolidinone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.5 | ug/L |
| MW-18-4 | 2016927-06 | Methyl parathion | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.71 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosomethylethylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |

SDG: 2016927

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|---|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Methyl methanesulfonate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosomorpholine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.63 | ug/L |
| MW-18-4 | 2016927-06 | delta-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Methoxychlor | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 3,3'-Dimethylbenzidine | 6/17/2020 | 20 | Y | n | u | | 20 | 0.42 | ug/L |
| MW-18-4 | 2016927-06 | Kepone | 6/17/2020 | 20 | Y | n | u | | 20 | 2.2 | ug/L |
| MW-18-4 | 2016927-06 | Isosafrole | 6/17/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-18-4 | 2016927-06 | trans-Isosafrole | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.29 | ug/L |
| MW-18-4 | 2016927-06 | cis-Isosafrole | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.44 | ug/L |
| MW-18-4 | 2016927-06 | 3-(Chloromethyl) pyridine hydrochloride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | 1-Methylnaphthalene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-18-4 | 2016927-06 | 2-Picoline | 6/17/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-18-4 | 2016927-06 | Total PCB's (Summation) | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1262 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1016 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1221 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1254 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1248 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1260 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1232 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosodiethylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.55 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1242 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | Methapyrilene | 6/17/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-18-4 | 2016927-06 | Phorate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.35 | ug/L |
| MW-18-4 | 2016927-06 | 1,4-Phenylenediamine | 6/17/2020 | 20 | Y | n | u | | 20 | 1.1 | ug/L |

SDG: 2016927

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Phenacetin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.75 | ug/L |
| MW-18-4 | 2016927-06 | Pentachloronitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.42 | ug/L |
| MW-18-4 | 2016927-06 | Pentachloroethane | 6/17/2020 | 20 | Y | n | u | | 20 | 0.31 | ug/L |
| MW-18-4 | 2016927-06 | Pentachlorobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosopyrrolidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.39 | ug/L |
| MW-18-4 | 2016927-06 | N-Nitrosopiperidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.47 | ug/L |
| MW-18-4 | 2016927-06 | PCB-1268 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-18-4 | 2016927-06 | Famphur | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 4.1 | ug/L |
| MW-18-4 | 2016927-06 | Benzo[b]fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.24 | ug/L |
| MW-18-4 | 2016927-06 | Benzo[k]fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-18-4 | 2016927-06 | Benzo[a]pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Benzo[g,h,i]perylene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-18-4 | 2016927-06 | Chlorfenvinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Benzyl alcohol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | 3-Methylcholanthrene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.31 | ug/L |
| MW-18-4 | 2016927-06 | alpha-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Isodrin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.43 | ug/L |
| MW-18-4 | 2016927-06 | Benzo[a]anthracene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-18-4 | 2016927-06 | Hexachlorophene | 6/17/2020 | 200 | Y | n | u | UJ | 200 | 20 | ug/L |
| MW-18-4 | 2016927-06 | Benzoic acid | 6/17/2020 | 10 | Y | n | u | | 10 | 0.52 | ug/L |
| MW-18-4 | 2016927-06 | Ethyl Parathion | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-18-4 | 2016927-06 | Ethyl methanesulfonate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-18-4 | 2016927-06 | Ethyl methacrylate | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 1.2 | ug/L |
| MW-18-4 | 2016927-06 | Disulfoton | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.33 | ug/L |
| MW-18-4 | 2016927-06 | Diphenylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |

SDG: 2016927

| Analytical Method | | EPA-8270C | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-4 | 2016927-06 | Dinoseb | 6/17/2020 | 10 | Y | n | u | | 10 | 0.91 | ug/L |
| MW-18-4 | 2016927-06 | 1,3-Dinitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.93 | ug/L |
| MW-18-4 | 2016927-06 | Dimethyl sulfoxide (DMSO) | 6/17/2020 | 10 | Y | n | u | | 10 | 9.5 | ug/L |
| MW-18-4 | 2016927-06 | a,a-Dimethylphenethylamine | 6/17/2020 | 20 | Y | n | u | | 20 | 4.9 | ug/L |
| MW-18-4 | 2016927-06 | Hexachloropropene | 6/17/2020 | 20 | Y | n | u | | 20 | 0.23 | ug/L |
| MW-18-4 | 2016927-06 | o-Anisidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Carbophenothion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Carbofuran | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Carbaryl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Captan | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Captafol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Bromoxynil | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | p-Benzoquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Barban | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Azinphos methyl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-4 | 2016927-06 | Benzyl butyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Benzidine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 1.6 | ug/L |
| MW-18-4 | 2016927-06 | Acenaphthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Anthracene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Aniline | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.28 | ug/L |
| MW-18-4 | 2016927-06 | Acenaphthylene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-18-4 | 2016927-06 | Aldrin | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |

| Analytical Method | | SM-2320B | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

SDG: 2016927

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| SM-2320B | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-2-061020 | 2016927-07 | Bicarbonate | 6/16/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| EB-2-061020 | 2016927-07 | Total Alkalinity as CaCO3 | 6/16/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| EB-2-061020 | 2016927-07 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-18-3 | 2016927-05 | Bicarbonate | 6/16/2020 | 240 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-18-3 | 2016927-05 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-18-3 | 2016927-05 | Total Alkalinity as CaCO3 | 6/16/2020 | 200 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-18-4 | 2016927-06 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-18-4 | 2016927-06 | Bicarbonate | 6/16/2020 | 200 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-18-4 | 2016927-06 | Total Alkalinity as CaCO3 | 6/16/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-18-5 | 2016927-04 | Carbonate | 6/16/2020 | 15 | Y | y | v | | 2.5 | 2.5 | mg/L |
| MW-18-5 | 2016927-04 | Total Alkalinity as CaCO3 | 6/16/2020 | 120 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-18-5 | 2016927-04 | Bicarbonate | 6/16/2020 | 110 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-26-1 | 2016927-02 | Bicarbonate | 6/16/2020 | 320 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-26-1 | 2016927-02 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-26-1 | 2016927-02 | Total Alkalinity as CaCO3 | 6/16/2020 | 260 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-26-2 | 2016927-03 | Bicarbonate | 6/16/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-26-2 | 2016927-03 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-26-2 | 2016927-03 | Total Alkalinity as CaCO3 | 6/16/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017061

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-3-061120 | 2017061-01 | Water | 06/11/20 |
| MW-18-2 | 2017061-02 | Water | 06/11/20 |
| MW-18-1 | 2017061-03 | Water | 06/11/20 |
| MW-19-2 | 2017061-04 | Water | 06/11/20 |
| MW-19-3 | 2017061-05 | Water | 06/11/20 |
| DUP-1-2Q2020 | 2017061-06 | Water | 06/11/20 |
| MW-19-5 | 2017061-07 | Water | 06/11/20 |
| MW-19-4 | 2017061-08 | Water | 06/11/20 |
| EB-3-061120 | 2017061-09 | Water | 06/11/20 |
| SB-1-061120 | 2017061-10 | Water | 06/11/20 |
| MW-19-1 | 2017061-11 | Water | 06/11/20 |
| MW-18-2MS | 2017061-02MS | Water | 06/11/20 |
| MW-18-2MSD | 2017061-02MSD | Water | 06/11/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/10/20 | Diethyl ether | 74.0 | All samples in SDG 2017061 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------------------------------|--------------|----------------------------|--|--------|
| 06/13/20 | Naphthalene 1,2,4-Trichlorobenzene | 45.6 32.2 | All samples in SDG 2017061 | UJ (all non-detects) UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-----------------------------|------|----------------------------|----------------------|--------|
| 06/12/20 | trans-1,4-Dichloro-2-butene | 38.6 | All samples in SDG 2017061 | UJ (all non-detects) | P |

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-3-061120 was identified as a trip blank. No contaminants were found.

Sample EB-3-061120 was identified as an equipment blank. No contaminants were found.

Sample SB-1-061120 was identified as a source blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-19-3 and DUP-1-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/L) | | RPD |
|-------------------|----------------------|--------------|-----|
| | MW-19-3 | DUP-1-2Q2020 | |
| Chloroform | 2.1 | 1.9 | 10 |
| Tetrachloroethene | 0.71 | 0.53 | 29 |

| Compound | Concentration (ug/L) | | RPD |
|-----------------|----------------------|--------------|-----|
| | MW-19-3 | DUP-1-2Q2020 | |
| Trichloroethene | 0.27 | 0.22 | 20 |

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

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

NASA JPL, 2Q2020

Volatiles - Data Qualification Summary - SDG 2017061

| Sample | Compound | Flag | A or P | Reason |
|--|--|--|--------|---------------------------------------|
| TB-3-061120 MW-18-2 MW-18-1 MW-19-2 MW-19-3 DUP-1-2Q2020 MW-19-5 MW-19-4 EB-3-061120 SB-1-061120 MW-19-1 | Diethyl ether | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-3-061120 MW-18-2 MW-18-1 MW-19-2 MW-19-3 DUP-1-2Q2020 MW-19-5 MW-19-4 EB-3-061120 SB-1-061120 MW-19-1 | Naphthalene 1,2,4-Trichlorobenzene trans-1,4-Dichloro-2-butene | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020

Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017061

No Sample Data Qualified in this SDG

LDC #: 48646C1a
 SDG #: 2017061
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 8/1/20
 Page: 1 of 1
 Reviewer:
 2nd Reviewer:

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A MW | BSD < 20%. r^2 10^2 $10^2 \leq 30\%$ |
| IV. | Continuing calibration | MW | CCV < 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | NO | TB=1. EB=9. SB=10 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | 100% |
| X. | Field duplicates | MW | D=5+0 |
| 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-3-061120 | 2017061-01 | Water | 06/11/20 |
| 2 | MW-18-2 | 2017061-02 | Water | 06/11/20 |
| 3 | MW-18-1 | 2017061-03 | Water | 06/11/20 |
| 4 | MW-19-2 | 2017061-04 | Water | 06/11/20 |
| 5 | MW-19-3 | 2017061-05 | Water | 06/11/20 |
| 6 | DUP-1-2Q2020 | 2017061-06 | Water | 06/11/20 |
| 7 | MW-19-5 | 2017061-07 | Water | 06/11/20 |
| 8 | MW-19-4 | 2017061-08 | Water | 06/11/20 |
| 9 | EB-3-061120 | 2017061-09 | Water | 06/11/20 |
| 10 | SB-1-061120 | 2017061-10 | Water | 06/11/20 |
| 11 | MW-19-1 | 2017061-11 | Water | 06/11/20 |
| 12 | MW-18-2MS | 2017061-02MS | Water | 06/11/20 |
| 13 | MW-18-2MSD | 2017061-02MSD | Water | 06/11/20 |
| 14 | | | | |

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC#: 48646C1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: GCMS VOA (EPA Method 524.2)

| Compound | Concentration (ug/L) | | RPD |
|----------|----------------------|------|-----|
| | 5 | 6 | |
| K | 2.1 | 1.9 | 10 |
| AA | 0.71 | 0.53 | 29 |
| S | 0.27 | 0.22 | 20 |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Semivolatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017061

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-19-2 | 2017061-04 | Water | 06/11/20 |

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:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) SW 846 Method 8270C

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

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

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered 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

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|----------|---|--|-------------------------------|--|--------|
| 06/15/20 | Benzidine Endosulfan I 2-Naphthylamine cis-Chlordane Famphur 1-Naphthylamine | 56.06873 18.33888 49.74228 32.46043 40.31817 37.88838 | All samples in SDG 2017061 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

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 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|--|--------------------------------------|-------------------------------|--|--|--------|
| 06/16/20 (16JUN003) | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | 25.2 27.2 25.9 20.8 33.4 | All samples in SDG 2017061 | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|-----------------------------|------------|-------------------------------|-----------------------------|----------------------|--------|
| 06/16/20 (16JUN004) | Aramite | 20.9 | All samples in SDG 2017061 | Aramite | UJ (all non-detects) | A |
| | p-(Dimethylamino)azobenzene | 23.9 | | p-(Dimethylamino)azobenzene | UJ (all non-detects) | |
| | Disulfoton | 22.6 | | Disulfoton | UJ (all non-detects) | |
| | Ethyl methacrylate | 31.2 | | Ethyl methacrylate | UJ (all non-detects) | |
| | Ethyl Parathion | 23.9 | | Ethyl Parathion | UJ (all non-detects) | |
| | Methyl parathion | 26.3 | | Methyl parathion | UJ (all non-detects) | |
| | 1,4-Naphthoquinone | 33.7 | | 1,4-Naphthoquinone | UJ (all non-detects) | |
| | Hexachlorophene | 36.1 | | Hexachlorophene | UJ (all non-detects) | |
| | PCB-1260 | 22.7 | | PCB-1260 | UJ (all non-detects) | |
| | | | | PCB-1016 | UJ (all non-detects) | |
| | | | | PCB-1221 | UJ (all non-detects) | |
| | | | | PCB-1232 | UJ (all non-detects) | |
| | | | | PCB-1242 | UJ (all non-detects) | |
| | | | | PCB-1248 | UJ (all non-detects) | |
| | | PCB-1254 | UJ (all non-detects) | | | |
| | | PCB-1262 | UJ (all non-detects) | | | |
| | | PCB-1268 | UJ (all non-detects) | | | |
| | | Total PCBs | UJ (all non-detects) | | | |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

Due to initial calibration %RSD and ICV %D, data were qualified as estimated in one sample.

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

LDC #: 48646C2a
 SDG #: 2017061
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 6/1/20
 Page: 1 of 1
 Reviewer: _____
 2nd Reviewer: _____

METHOD: GC/MS Semivolatiles (EPA SW846 Method 8270C)

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

| | Validation Area | | Comments |
|-------|--|------------------|---|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | SW/TW | RSD = 39/15%. r ² CV ≤ 20% |
| IV. | Continuing calibration | SW/TW | CV ≤ 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | TW | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-19-2 | 2017061-04 | Water | 06/11/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

| | | | | |
|--|--|--|--|--|
| | | | | |
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VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

| | | | | |
|---------------------------------|---------------------------------|----------------------------------|---|--|
| A. Phenol | CC. Dimethylphthalate | EEE. Bis(2-ethylhexyl)phthalate | GGGG. C30-Hopane | I1. Methyl methanesulfonate |
| B. Bis (2-chloroethyl) ether | DD. Acenaphthylene | FFF. Di-n-octylphthalate | HHHH. 1-Methylphenanthrene | J1. Ethyl methanesulfonate |
| C. 2-Chlorophenol | EE. 2,6-Dinitrotoluene | GGG. Benzo(b)fluoranthene | IIII. 1,4-Dioxane | K1. o,o',o"-Triethylphosphorothioate |
| D. 1,3-Dichlorobenzene | FF. 3-Nitroaniline | HHH. Benzo(k)fluoranthene | JJJJ. Acetophenone | L1. n-Phenylene diamine |
| E. 1,4-Dichlorobenzene | GG. Acenaphthene | III. Benzo(a)pyrene | KKKK. Atrazine | M1. 1,4-Naphthoquinone |
| F. 1,2-Dichlorobenzene | HH. 2,4-Dinitrophenol | JJJ. Indeno(1,2,3-cd)pyrene | LLLL. Benzaldehyde | N1. N-Nitro-o-toluidine |
| G. 2-Methylphenol | II. 4-Nitrophenol | KKK. Dibenz(a,h)anthracene | MMMM. Caprolactam | O1. 1,3,5-Trinitrobenzene |
| H. 2,2'-Oxybis(1-chloropropane) | JJ. Dibenzofuran | LLL. Benzo(g,h,i)perylene | NNNN. 2,6-Dichlorophenol | P1. Pentachlorobenzene |
| I. 4-Methylphenol | KK. 2,4-Dinitrotoluene | MMM. Bis(2-Chloroisopropyl)ether | OOOO. 1,2-Diphenylhydrazine | Q1. 4-Aminobiphenyl |
| J. N-Nitroso-di-n-propylamine | LL. Diethylphthalate | NNN. Aniline | PPPP. 3-Methylphenol | R1. 2-Naphthylamine |
| K. Hexachloroethane | MM. 4-Chlorophenyl-phenyl ether | OOO. N-Nitrosodimethylamine | QQQQ. 3&4-Methylphenol | S1. Triphenylene |
| L. Nitrobenzene | NN. Fluorene | PPP. Benzoic Acid | RRRR. 4-Dimethyldibenzothiophene (4MDT) | T1. Octachlorostyrene |
| M. Isophorone | OO. 4-Nitroaniline | QQQ. Benzyl alcohol | SSSS. 2/3-Dimethyldibenzothiophene (4MDT) | U1. Famphur |
| N. 2-Nitrophenol | PP. 4,6-Dinitro-2-methylphenol | RRR. Pyridine | TTTT. 1-Methyldibenzothiophene (1MDT) | V1. 1,4-phenylenediamine |
| O. 2,4-Dimethylphenol | QQ. N-Nitrosodiphenylamine | SSS. Benzidine | UUUU.. 2,3,4,6-Tetrachlorophenol | W1. Methapyrilene |
| P. Bis(2-chloroethoxy)methane | RR. 4-Bromophenyl-phenylether | TTT. 1-Methylnaphthalene | VVVV. 1,2,4,5-Tetrachlorobenzene | X1. Pentachloroethane |
| Q. 2,4-Dichlorophenol | SS. Hexachlorobenzene | UUU. Benzo(b)thiophene | WWWW.. 2-Picoline | Y1. 3,3'-Dimethylbenzidine |
| R. 1,2,4-Trichlorobenzene | TT. Pentachlorophenol | VVV. Benzonaphthothiophene | XXXX. 3-Methylcholanthrene | Z1. o-Toluidine |
| S. Naphthalene | UU. Phenanthrene | WWW. Benzo(e)pyrene | YYYY. a,a-Dimethylphenethylamine | A2. 1-Naphthylamine |
| T. 4-Chloroaniline | VV. Anthracene | XXX. 2,6-Dimethylnaphthalene | ZZZZ. Hexachloropropene | B2. 4-Aminobiphenyl |
| U. Hexachlorobutadiene | WW. Carbazole | YYY. 2,3,5-Trimethylnaphthalene | A1. N-Nitrosodiethylamine | C2. 4-Nitroquinoline-1-oxide |
| V. 4-Chloro-3-methylphenol | XX. Di-n-butylphthalate | ZZZ. Perylene | B1. N-Nitrosodi-n-butylamine | D2. Hexachloropene |
| W. 2-Methylnaphthalene | YY. Fluoranthene | AAAA. Dibenzothiophene | C1. N-Nitrosomethylethylamine | E2. Bis (2-chloro-1-methylethyl) ether |
| X. Hexachlorocyclopentadiene | ZZ. Pyrene | BBBB. Benzo(a)fluoranthene | D1. N-Nitrosomorpholine | F2. Bifenthrin |
| Y. 2,4,6-Trichlorophenol | AAA. Butylbenzylphthalate | CCCC. Benzo(b)fluorene | E1. N-Nitrosopyrrolidine | G2. Cyfluthrin |
| Z. 2,4,5-Trichlorophenol | BBB. 3,3'-Dichlorobenzidine | DDDD. cis/trans-Decalin | F1. Phenacetin | H2. Cypermethrin |
| AA. 2-Chloronaphthalene | CCC. Benzo(a)anthracene | EEEE. Biphenyl | G1. 2-Acetylaminofluorene | I2. Permethrin (cis/trans) |
| BB. 2-Nitroaniline | DDD. Chrysene | FFFF. Retene | H1. Pronamide | J2. 5-Nitro-o-toluidine |

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

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

- N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?
- Y N/A Were all %D within the validation criteria of ≤30 %D ?

| # | Date | Standard ID | Compound | Finding %D (Limit: ≤30.0%) | Associated Samples | Qualifications |
|---|---------|-------------|-----------------------------|-------------------------------|--------------------|----------------------------------|
| | 6/16/20 | 16JUN003 | SSS | 25.2 | All (ND) | J/U/J/A |
| | | | H | 27.2 | | |
| | | | BBB | 25.9 | | |
| | | | Heptachlor | 20.8 | | |
| | | | R1 | 33.4 | | |
| | 6/16/20 | 16JUN004 | Aramite | 20.9 | | |
| | | | p-(Dimethylamino)azobenzene | 23.9 | | |
| | | | Disilfoton | 22.6 | | |
| | | | Ethyl methacrylate | 31.2 | | |
| | | | Ethyl Parathion | 23.9 | | |
| | | | Methyl parathion | 26.3 | | |
| | | | M1 | 33.7 | | |
| | | | Hexachlorophene | 36.1 | | |
| | | | PCB-1260 | 27.7 | | |
| | | | | | | (qual: PCB-1016, 1221,1232,1242, |
| | | | | | | 1248,1254,1260,1262,1268, and |
| | | | | | | Total PCBS) |
| | | | | | | |
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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017061

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-18-2 | 2017061-02 | Water | 06/11/20 |
| MW-18-1 | 2017061-03 | Water | 06/11/20 |
| MW-19-2 | 2017061-04 | Water | 06/11/20 |
| MW-19-3 | 2017061-05 | Water | 06/11/20 |
| DUP-1-2Q2020 | 2017061-06 | Water | 06/11/20 |
| MW-19-5 | 2017061-07 | Water | 06/11/20 |
| MW-19-4 | 2017061-08 | Water | 06/11/20 |
| EB-3-061120 | 2017061-09 | Water | 06/11/20 |
| SB-1-061120 | 2017061-10 | Water | 06/11/20 |
| MW-19-1 | 2017061-11 | Water | 06/11/20 |

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|-----------|-----------------------|--|
| ICB/CCB | Arsenic | 1.4130 ug/L | MW-18-2 MW-18-1 MW-19-2 MW-19-3 |
| PB (prep blank) | Calcium | 0.015070 mg/L | MW-18-2 MW-18-1 MW-19-2 MW-19-3 DUP-1-2Q2020 MW-19-5 MW-19-4 EB-3-061120 SB-1-061120 |
| PB (prep blank) | Potassium | 0.10831 mg/L | MW-19-1 |
| ICB/CCB | Potassium | 0.12751 ug/L | MW-19-1 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|---------|------------------------|------------------------------|
| MW-18-2 | Arsenic | 1.1 mg/Kg | 1.1U mg/Kg |
| MW-19-3 | Arsenic | 1.2 mg/Kg | 1.2U mg/Kg |
| EB-3-061120 | Calcium | 0.040 mg/Kg | 0.040U mg/Kg |
| SB-1-061120 | Calcium | 0.056 mg/Kg | 0.056U mg/Kg |

VI. Field Blanks

Sample EB-3-061120 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Collection Date | Analyte | Concentration |
|-------------|-----------------|-------------------|-------------------------|
| EB-3-061120 | 06/11/20 | Calcium Sodium | 0.040 mg/L 0.11 mg/L |

Sample SB-1-061120 was identified as a source blank. No contaminants were found with the following exceptions:

| Blank ID | Collection Date | Analyte | Concentration |
|-------------|-----------------|-------------------|-------------------------|
| SB-1-061120 | 06/11/20 | Calcium Sodium | 0.056 mg/L 0.27 mg/L |

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

XI. Field Duplicates

Samples MW-19-3 and DUP-1-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|----------------|
| | MW-19-3 | DUP-1-2Q2020 | |
| Iron | 180 ug/L | 92 ug/L | 65 |
| Arsenic | 1.2 ug/L | 0.70 ug/L | Not calculable |
| Chromium | 1.9 ug/L | 2.0 ug/L | 5 |
| Calcium | 90 mg/L | 90 mg/L | 0 |
| Magnesium | 30 mg/L | 30 mg/L | 0 |
| Sodium | 32 mg/L | 31 mg/L | 3 |
| Potassium | 2.6 mg/L | 2.6 mg/L | 0 |

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017061**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017061**

| Sample | Analyte | Modified Final Concentration | A or P |
|---------------|----------------|-------------------------------------|---------------|
| MW-18-2 | Arsenic | 1.1U mg/Kg | A |
| MW-19-3 | Arsenic | 1.2U mg/Kg | A |
| EB-3-061120 | Calcium | 0.040U mg/Kg | A |
| SB-1-061120 | Calcium | 0.056U mg/Kg | A |

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|-------|--------------|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | EB=8 SB=9 |
| VII. | Matrix Spike/Matrix Spike Duplicates | N | |
| VIII. | Duplicate sample analysis | N | |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | LCS |
| XI. | Field Duplicates | SW | (4,5) |
| XII. | Internal Standard (ICP-MS) | N | NOT REVIEWED |
| XIII. | Sample Result Verification | N | |
| XIV. | Overall Assessment of Data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|------------|--------|----------|
| 1 | MW-18-2 | 2017061-02 | Water | 06/11/20 |
| 2 | MW-18-1 | 2017061-03 | Water | 06/11/20 |
| 3 | MW-19-2 | 2017061-04 | Water | 06/11/20 |
| 4 | MW-19-3 | 2017061-05 | Water | 06/11/20 |
| 5 | DUP-1-2Q2020 | 2017061-06 | Water | 06/11/20 |
| 6 | MW-19-5 | 2017061-07 | Water | 06/11/20 |
| 7 | MW-19-4 | 2017061-08 | Water | 06/11/20 |
| 8 | EB-3-061120 | 2017061-09 | Water | 06/11/20 |
| 9 | SB-1-061120 | 2017061-10 | Water | 06/11/20 |
| 10 | MW-19-1 | 2017061-11 | Water | 06/11/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes: _____

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

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

Soil preparation factor applied: _____

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: 1-4

| | | | | | Sample Identification | | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|-----|-----|-----|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | 1 | 4 | 6 | 7 | | | | | | | | | |
| As | | | 1.4130 | 7.065 | 1.1 | 1.2 | 1.5 | 1.4 | | | | | | | | | |

Associated Samples: 1-9

| | | | | | Sample Identification | | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|-------|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | 8 | 9 | | | | | | | | | | | |
| Ca | 0.015070 | | | 0.07535 | 0.040 | 0.056 | | | | | | | | | | | |

Associated Samples: 10

| | | | | | Sample Identification | | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | NO QUAL | | | | | | | | | | | | |
| K | 0.10831 | | 0.12751 | 0.63755 | | | | | | | | | | | | | |

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

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

LDC#: 48646C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

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

| Analyte | Concentration (ug/L) | | RPD |
|------------------|----------------------|------|-----|
| | 4 | 5 | |
| Iron | 180 | 92 | 65 |
| Arsenic | 1.2 | 0.70 | NC |
| Chromium | 1.9 | 2.0 | 5 |
| Calcium (mg/L) | 90 | 90 | 0 |
| Magnesium (mg/L) | 30 | 30 | 0 |
| Sodium (mg/L) | 32 | 31 | 3 |
| Potassium (mg/L) | 2.6 | 2.6 | 0 |

V:\Darionna\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2020\48646C4a.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017061

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-18-2 | 2017061-02 | Water | 06/11/20 |
| MW-18-1 | 2017061-03 | Water | 06/11/20 |
| MW-19-2 | 2017061-04 | Water | 06/11/20 |
| MW-19-3 | 2017061-05 | Water | 06/11/20 |
| DUP-1-2Q2020 | 2017061-06 | Water | 06/11/20 |
| MW-19-5 | 2017061-07 | Water | 06/11/20 |
| MW-19-4 | 2017061-08 | Water | 06/11/20 |
| EB-3-061120 | 2017061-09 | Water | 06/11/20 |
| SB-1-061120 | 2017061-10 | Water | 06/11/20 |
| MW-19-1 | 2017061-11 | Water | 06/11/20 |
| MW-18-2MS | 2017061-02MS | Water | 06/11/20 |
| MW-18-2MSD | 2017061-02MSD | Water | 06/11/20 |
| MW-18-2DUP | 2017061-02DUP | Water | 06/11/20 |
| MW-19-2DUP | 2017061-04DUP | Water | 06/11/20 |
| DUP-1-2Q2020DUP | 2017061-06DUP | Water | 06/11/20 |
| MW-19-1DUP | 2017061-11DUP | Water | 06/11/20 |

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|----------------------------|---------|--|---|-----------------|--------|
| All samples in SDG 2017061 | pH | 5 days | 2 days | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-3-061120 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|---|--|
| EB-3-061120 | pH Total dissolved solids Hexavalent chromium | 4.39 mg/L 4.7 mg/L 0.000040 mg/L |

Sample SB-1-061120 was identified as a source blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--|---|
| SB-1-061120 | pH Total dissolved solids Hexavalent chromium Sulfate | 4.71 mg/L 4.0 mg/L 0.000056 mg/L 0.16 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-19-3 and DUP-1-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration (mg/L) | | RPD |
|------------------------|----------------------|--------------|-----|
| | MW-19-3 | DUP-1-2Q2020 | |
| pH | 7.69 | 7.65 | 1 |
| Total dissolved solids | 620 | 570 | 8 |
| Hexavalent chromium | 0.00089 | 0.0019 | 72 |
| Chloride | 82 | 81 | 1 |
| Nitrate as N | 9.5 | 9.5 | 0 |
| Sulfate | 110 | 110 | 0 |
| Perchlorate (ug/L) | 3.7 | 3.9 | 5 |
| Alkalinity | 180 | 180 | 0 |

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

Due to technical holding times, data were qualified as estimated in ten samples.

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017061**

| Sample | Analyte | Flag | A or P | Reason |
|---|---------|-----------------|--------|-------------------------|
| MW-18-2 MW-18-1 MW-19-2 MW-19-3 DUP-1-2Q2020 MW-19-5 MW-19-4 EB-3-061120 SB-1-061120 MW-19-1 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017061**

No Sample Data Qualified in this SDG

LDC #: 48646C6
 SDG #: 2017061
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 8/14/2020
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|------|-----------|
| I. | Sample receipt/Technical holding times | A SW | |
| II. | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV. | Laboratory Blanks | A | |
| V. | Field blanks | SW | EB=8 SB=9 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | SW | (4,5) |
| X. | Sample result verification | N | |
| XI. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|----|-----------------|---------------|--------|----------|
| 1 | MW-18-2 | 2017061-02 | Water | 06/11/20 |
| 2 | MW-18-1 | 2017061-03 | Water | 06/11/20 |
| 3 | MW-19-2 | 2017061-04 | Water | 06/11/20 |
| 4 | MW-19-3 | 2017061-05 | Water | 06/11/20 |
| 5 | DUP-1-2Q2020 | 2017061-06 | Water | 06/11/20 |
| 6 | MW-19-5 | 2017061-07 | Water | 06/11/20 |
| 7 | MW-19-4 | 2017061-08 | Water | 06/11/20 |
| 8 | EB-3-061120 | 2017061-09 | Water | 06/11/20 |
| 9 | SB-1-061120 | 2017061-10 | Water | 06/11/20 |
| 10 | MW-19-1 | 2017061-11 | Water | 06/11/20 |
| 11 | MW-18-2MS | 2017061-02MS | Water | 06/11/20 |
| 12 | MW-18-2MSD | 2017061-02MSD | Water | 06/11/20 |
| 13 | MW-18-2DUP | 2017061-02DUP | Water | 06/11/20 |
| 14 | MW-19-2DUP | 2017061-04DUP | Water | 06/11/20 |
| 15 | DUP-1-2Q2020DUP | 2017061-06DUP | Water | 06/11/20 |
| 16 | MW-19-1DUP | 2017061-11DUP | Water | 06/11/20 |

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

All circled methods are applicable to each sample.

| Sample ID | Parameter |
|---------------------|--|
| 1-10 | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ NO ₃ -N NO ₂ -N |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| ^{OC} 11-13 | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ NO ₃ -N NO ₂ -N |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| ^{OC} 14 | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| ^{OC} 15-16 | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
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| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
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| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ |

Comments: _____

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

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

| Method: | | 150.1 | | | | | |
|--------------------------------|----------------------|----------------------|-------------------|------------------|----------------------|-------------------|------------------|
| Parameters: | | pH | | | | | |
| Technical holding time: | | 48hrs | | | | | |
| Sample ID | Sampling date | Analysis date | Total Time | Qualifier | Analysis date | Total Time | Qualifier |
| ALL | 6/11/2020 | 6/16/2020 | 5days | J/R/P (det) | | | |
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VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/11/2020 **Soil factor applied:** NA

Field blank type: (circle one) Field Blank / Rinsate / Other: EB/SB **Associated Samples:** X flag

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | |
|---------|----------|--------------|-----------------------|--|--|--|--|--|--|--|
| | 8 | 9 | No Qualifiers | | | | | | | |
| pH | 4.39 | 4.71 | | | | | | | | |
| TDS | 4.7 | 4.0 | | | | | | | | |
| Cr6 | 0.000040 | 0.000056 | | | | | | | | |
| SO4 | | 0.16 | | | | | | | | |

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".

VALIDATION FINDINGS WORKSHEET

Field Duplicates

Inorganics, Method See Cover

| Analyte | Concentration (mg/L) | | RPD |
|--------------------|----------------------|--------|-----|
| | 4 | 5 | |
| pH | 7.69 | 7.65 | 1 |
| TDS | 620 | 570 | 8 |
| Cr6 | 0.00089 | 0.0019 | 72 |
| Chloride | 82 | 81 | 1 |
| NO3-N | 9.5 | 9.5 | 0 |
| SO4 | 110 | 110 | 0 |
| Perchlorate (ug/L) | 3.7 | 3.9 | 5 |
| Alkalinity | 180 | 180 | 0 |

V:\Darionna\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2020\48646C6.wpd

NASA JPL, 2Q2020 - LDC# 48646C

SDG: 2017061

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-150.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-1-2Q2020 | 2017061-06 | pH | 6/16/2020 | 7.65 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| EB-3-061120 | 2017061-09 | pH | 6/16/2020 | 4.39 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-18-1 | 2017061-03 | pH | 6/16/2020 | 8 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-18-2 | 2017061-02 | pH | 6/16/2020 | 7.85 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-19-1 | 2017061-11 | pH | 6/16/2020 | 8.18 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-19-2 | 2017061-04 | pH | 6/16/2020 | 7.68 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-19-3 | 2017061-05 | pH | 6/16/2020 | 7.69 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-19-4 | 2017061-08 | pH | 6/16/2020 | 7.78 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-19-5 | 2017061-07 | pH | 6/16/2020 | 7.87 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| SB-1-061120 | 2017061-10 | pH | 6/16/2020 | 4.71 | Y | y | v | J | 0.05 | 0.05 | pH Units |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|--------------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-160.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-1-2Q2020 | 2017061-06 | Total Dissolved Solids @ 180 C | 6/15/2020 | 570 | Y | y | v | | 33 | 17 | mg/L |
| EB-3-061120 | 2017061-09 | Total Dissolved Solids @ 180 C | 6/15/2020 | 4.7 | Y | y | v j | | 6.7 | 3.3 | mg/L |
| MW-18-1 | 2017061-03 | Total Dissolved Solids @ 180 C | 6/15/2020 | 270 | Y | y | v | | 20 | 10 | mg/L |
| MW-18-2 | 2017061-02 | Total Dissolved Solids @ 180 C | 6/15/2020 | 270 | Y | y | v | | 20 | 10 | mg/L |
| MW-19-1 | 2017061-11 | Total Dissolved Solids @ 180 C | 6/15/2020 | 240 | Y | y | v | | 20 | 10 | mg/L |
| MW-19-2 | 2017061-04 | Total Dissolved Solids @ 180 C | 6/15/2020 | 800 | Y | y | v | | 50 | 25 | mg/L |
| MW-19-3 | 2017061-05 | Total Dissolved Solids @ 180 C | 6/15/2020 | 620 | Y | y | v | | 33 | 17 | mg/L |
| MW-19-4 | 2017061-08 | Total Dissolved Solids @ 180 C | 6/15/2020 | 470 | Y | y | v | | 33 | 17 | mg/L |
| MW-19-5 | 2017061-07 | Total Dissolved Solids @ 180 C | 6/15/2020 | 450 | Y | y | v | | 20 | 10 | mg/L |
| SB-1-061120 | 2017061-10 | Total Dissolved Solids @ 180 C | 6/15/2020 | 4 | Y | y | v j | | 6.7 | 3.3 | mg/L |

SDG: 2017061

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Calcium | 6/17/2020 | 90 | Y | y | v | | 0.10 | 0.014 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Iron | 6/17/2020 | 92 | Y | y | v | | 50 | 30 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Sodium | 6/17/2020 | 31 | Y | y | v | | 0.50 | 0.051 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Potassium | 6/17/2020 | 2.6 | Y | y | v | | 1.0 | 0.10 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Magnesium | 6/17/2020 | 30 | Y | y | v | | 0.050 | 0.019 | mg/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Magnesium | 6/17/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Sodium | 6/17/2020 | 0.11 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Iron | 6/17/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Calcium | 6/17/2020 | 0.04 | Y | y | v j | U | 0.10 | 0.014 | mg/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Potassium | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| MW-18-1 | 2017061-03 | Total Recoverable Potassium | 6/17/2020 | 2.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-18-1 | 2017061-03 | Total Recoverable Calcium | 6/17/2020 | 45 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-18-1 | 2017061-03 | Total Recoverable Magnesium | 6/17/2020 | 13 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-18-1 | 2017061-03 | Total Recoverable Sodium | 6/17/2020 | 19 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-18-1 | 2017061-03 | Total Recoverable Iron | 6/17/2020 | 43 | Y | y | v j | | 50 | 30 | ug/L |
| MW-18-2 | 2017061-02 | Total Recoverable Sodium | 6/17/2020 | 21 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-18-2 | 2017061-02 | Total Recoverable Magnesium | 6/17/2020 | 14 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-18-2 | 2017061-02 | Total Recoverable Iron | 6/17/2020 | 68 | Y | y | v | | 50 | 30 | ug/L |
| MW-18-2 | 2017061-02 | Total Recoverable Calcium | 6/17/2020 | 47 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-18-2 | 2017061-02 | Total Recoverable Potassium | 6/17/2020 | 2.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-19-1 | 2017061-11 | Total Recoverable Potassium | 6/17/2020 | 3.3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-19-1 | 2017061-11 | Total Recoverable Sodium | 6/17/2020 | 29 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-19-1 | 2017061-11 | Total Recoverable Magnesium | 6/17/2020 | 14 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-19-1 | 2017061-11 | Total Recoverable Iron | 6/17/2020 | 440 | Y | y | v | | 50 | 30 | ug/L |
| MW-19-1 | 2017061-11 | Total Recoverable Calcium | 6/17/2020 | 29 | Y | y | v | | 0.10 | 0.014 | mg/L |

SDG: 2017061

Analytical Method EPA-200.7

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| MW-19-2 | 2017061-04 | Total Recoverable Iron | 6/17/2020 | 640 | Y | y | v | | 50 | 30 | ug/L |
| MW-19-2 | 2017061-04 | Total Recoverable Magnesium | 6/17/2020 | 44 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-19-2 | 2017061-04 | Total Recoverable Calcium | 6/17/2020 | 130 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-19-2 | 2017061-04 | Total Recoverable Sodium | 6/17/2020 | 36 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-19-2 | 2017061-04 | Total Recoverable Potassium | 6/17/2020 | 3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-19-3 | 2017061-05 | Total Recoverable Calcium | 6/17/2020 | 90 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-19-3 | 2017061-05 | Total Recoverable Magnesium | 6/17/2020 | 30 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-19-3 | 2017061-05 | Total Recoverable Sodium | 6/17/2020 | 32 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-19-3 | 2017061-05 | Total Recoverable Potassium | 6/17/2020 | 2.6 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-19-3 | 2017061-05 | Total Recoverable Iron | 6/17/2020 | 180 | Y | y | v | | 50 | 30 | ug/L |
| MW-19-4 | 2017061-08 | Total Recoverable Magnesium | 6/17/2020 | 26 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-19-4 | 2017061-08 | Total Recoverable Sodium | 6/17/2020 | 32 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-19-4 | 2017061-08 | Total Recoverable Iron | 6/17/2020 | 60 | Y | y | v | | 50 | 30 | ug/L |
| MW-19-4 | 2017061-08 | Total Recoverable Calcium | 6/17/2020 | 78 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-19-4 | 2017061-08 | Total Recoverable Potassium | 6/17/2020 | 2.3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-19-5 | 2017061-07 | Total Recoverable Sodium | 6/17/2020 | 32 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-19-5 | 2017061-07 | Total Recoverable Calcium | 6/17/2020 | 73 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-19-5 | 2017061-07 | Total Recoverable Iron | 6/17/2020 | 140 | Y | y | v | | 50 | 30 | ug/L |
| MW-19-5 | 2017061-07 | Total Recoverable Magnesium | 6/17/2020 | 25 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-19-5 | 2017061-07 | Total Recoverable Potassium | 6/17/2020 | 2.4 | Y | y | v | | 1.0 | 0.10 | mg/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Magnesium | 6/17/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Potassium | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Calcium | 6/17/2020 | 0.056 | Y | y | v j | U | 0.10 | 0.014 | mg/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Iron | 6/17/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Sodium | 6/17/2020 | 0.27 | Y | y | v j | | 0.50 | 0.051 | mg/L |

SDG: 2017061

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-1-2Q2020 | 2017061-06 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Arsenic | 6/18/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Total Recoverable Chromium | 6/18/2020 | 2 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Chromium | 6/18/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Arsenic | 6/18/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| EB-3-061120 | 2017061-09 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-18-1 | 2017061-03 | Total Recoverable Arsenic | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-18-1 | 2017061-03 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-18-1 | 2017061-03 | Total Recoverable Chromium | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-18-2 | 2017061-02 | Total Recoverable Chromium | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-18-2 | 2017061-02 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-18-2 | 2017061-02 | Total Recoverable Arsenic | 6/17/2020 | 1.1 | Y | y | v j | U | 2.0 | 0.70 | ug/L |
| MW-19-1 | 2017061-11 | Total Recoverable Arsenic | 6/18/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-19-1 | 2017061-11 | Total Recoverable Chromium | 6/18/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-19-1 | 2017061-11 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-19-2 | 2017061-04 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-19-2 | 2017061-04 | Total Recoverable Arsenic | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-19-2 | 2017061-04 | Total Recoverable Chromium | 6/17/2020 | 1.3 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-19-3 | 2017061-05 | Total Recoverable Lead | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-19-3 | 2017061-05 | Total Recoverable Chromium | 6/17/2020 | 1.9 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-19-3 | 2017061-05 | Total Recoverable Arsenic | 6/17/2020 | 1.2 | Y | y | v j | U | 2.0 | 0.70 | ug/L |
| MW-19-4 | 2017061-08 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-19-4 | 2017061-08 | Total Recoverable Chromium | 6/18/2020 | 2.2 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-19-4 | 2017061-08 | Total Recoverable Arsenic | 6/18/2020 | 1.4 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-19-5 | 2017061-07 | Total Recoverable Chromium | 6/18/2020 | 2 | Y | y | v j | | 3.0 | 0.50 | ug/L |

SDG: 2017061

| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-5 | 2017061-07 | Total Recoverable Arsenic | 6/18/2020 | 1.5 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-19-5 | 2017061-07 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Arsenic | 6/18/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Chromium | 6/18/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| SB-1-061120 | 2017061-10 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | 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-1-2Q2020 | 2017061-06 | Hexavalent Chromium | 6/16/2020 | 0.0019 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| EB-3-061120 | 2017061-09 | Hexavalent Chromium | 6/16/2020 | 0.00004 | Y | y | v j | | 0.0002 | 0.00003 | mg/L |
| MW-18-1 | 2017061-03 | Hexavalent Chromium | 6/16/2020 | 0.0002 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-18-2 | 2017061-02 | Hexavalent Chromium | 6/16/2020 | ##### | Y | y | v j | | 0.0002 | 0.00003 | mg/L |
| MW-19-1 | 2017061-11 | Hexavalent Chromium | 6/16/2020 | 0.0002 | Y | n | u | | 0.0002 | 0.00003 | mg/L |
| MW-19-2 | 2017061-04 | Hexavalent Chromium | 6/16/2020 | 0.0016 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-19-3 | 2017061-05 | Hexavalent Chromium | 6/16/2020 | 0.00089 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-19-4 | 2017061-08 | Hexavalent Chromium | 6/16/2020 | 0.0026 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-19-5 | 2017061-07 | Hexavalent Chromium | 6/16/2020 | 0.0022 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| SB-1-061120 | 2017061-10 | Hexavalent Chromium | 6/16/2020 | ##### | Y | y | v j | | 0.0002 | 0.00003 | 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 |
| DUP-1-2Q2020 | 2017061-06 | Sulfate | 6/12/2020 | 110 | Y | y | v | | 1.0 | 0.14 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Nitrate as N | 6/12/2020 | 9.5 | Y | y | v | | 0.10 | 0.024 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Chloride | 6/12/2020 | 81 | Y | y | v | | 0.50 | 0.13 | mg/L |
| EB-3-061120 | 2017061-09 | Sulfate | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.14 | mg/L |
| EB-3-061120 | 2017061-09 | Nitrate as N | 6/12/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |

SDG: 2017061

| Analytical Method | EPA-300.0 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-3-061120 | 2017061-09 | Chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | mg/L |
| MW-18-1 | 2017061-03 | Sulfate | 6/11/2020 | 32 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-18-1 | 2017061-03 | Chloride | 6/11/2020 | 8 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-18-1 | 2017061-03 | Nitrate as N | 6/11/2020 | 1.1 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-18-2 | 2017061-02 | Sulfate | 6/11/2020 | 30 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-18-2 | 2017061-02 | Nitrate as N | 6/11/2020 | 0.34 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-18-2 | 2017061-02 | Chloride | 6/11/2020 | 8.2 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-19-1 | 2017061-11 | Chloride | 6/12/2020 | 21 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-19-1 | 2017061-11 | Nitrate as N | 6/12/2020 | 0.47 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-19-1 | 2017061-11 | Sulfate | 6/12/2020 | 27 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-19-2 | 2017061-04 | Nitrate as N | 6/11/2020 | 11 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-19-2 | 2017061-04 | Sulfate | 6/11/2020 | 160 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-19-2 | 2017061-04 | Chloride | 6/11/2020 | 130 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-19-3 | 2017061-05 | Chloride | 6/11/2020 | 82 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-19-3 | 2017061-05 | Nitrate as N | 6/11/2020 | 9.5 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-19-3 | 2017061-05 | Sulfate | 6/11/2020 | 110 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-19-4 | 2017061-08 | Sulfate | 6/12/2020 | 77 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-19-4 | 2017061-08 | Nitrate as N | 6/12/2020 | 8.4 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-19-4 | 2017061-08 | Chloride | 6/12/2020 | 62 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-19-5 | 2017061-07 | Sulfate | 6/12/2020 | 66 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-19-5 | 2017061-07 | Nitrate as N | 6/12/2020 | 7.9 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-19-5 | 2017061-07 | Chloride | 6/12/2020 | 55 | Y | y | v | | 0.50 | 0.13 | mg/L |
| SB-1-061120 | 2017061-10 | Nitrate as N | 6/12/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| SB-1-061120 | 2017061-10 | Sulfate | 6/12/2020 | 0.16 | Y | y | v j | | 1.0 | 0.14 | mg/L |
| SB-1-061120 | 2017061-10 | Chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | mg/L |

SDG: 2017061

| 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-1-2Q2020 | 2017061-06 | Perchlorate | 6/17/2020 | 3.9 | Y | y | v j | | 4.0 | 0.76 | ug/L |
| EB-3-061120 | 2017061-09 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.76 | ug/L |
| MW-18-1 | 2017061-03 | Perchlorate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.76 | ug/L |
| MW-18-2 | 2017061-02 | Perchlorate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.76 | ug/L |
| MW-19-1 | 2017061-11 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.76 | ug/L |
| MW-19-2 | 2017061-04 | Perchlorate | 6/17/2020 | 3.3 | Y | y | v j | | 4.0 | 0.76 | ug/L |
| MW-19-3 | 2017061-05 | Perchlorate | 6/25/2020 | 3.7 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-19-4 | 2017061-08 | Perchlorate | 6/17/2020 | 3.6 | Y | y | v j | | 4.0 | 0.76 | ug/L |
| MW-19-5 | 2017061-07 | Perchlorate | 6/17/2020 | 2.7 | Y | y | v j | | 4.0 | 0.76 | ug/L |
| SB-1-061120 | 2017061-10 | Perchlorate | 6/18/2020 | 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 |
| DUP-1-2Q2020 | 2017061-06 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| EB-3-061120 | 2017061-09 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-18-1 | 2017061-03 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-18-2 | 2017061-02 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-19-1 | 2017061-11 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-19-2 | 2017061-04 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-19-3 | 2017061-05 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-19-4 | 2017061-08 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-19-5 | 2017061-07 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| SB-1-061120 | 2017061-10 | Nitrite as N | 6/11/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |

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

SDG: 2017061

| 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-1-2Q2020 | 2017061-06 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Chloroform | 6/12/2020 | 1.9 | Y | y | v | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | cis-1,2-Dichloroethene | 6/12/2020 | 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 |
| DUP-1-2Q2020 | 2017061-06 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Trichloroethene | 6/12/2020 | 0.22 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-1-2Q2020 | 2017061-06 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-1-2Q2020 | 2017061-06 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.9 | Y | y | v s | | | | ug/L |
| DUP-1-2Q2020 | 2017061-06 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Tetrachloroethene | 6/12/2020 | 0.53 | Y | y | v | | 0.50 | 0.23 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-1-2Q2020 | 2017061-06 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-3-061120 | 2017061-09 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-3-061120 | 2017061-09 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-3-061120 | 2017061-09 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-3-061120 | 2017061-09 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-3-061120 | 2017061-09 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-3-061120 | 2017061-09 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-3-061120 | 2017061-09 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-3-061120 | 2017061-09 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| EB-3-061120 | 2017061-09 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-3-061120 | 2017061-09 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-3-061120 | 2017061-09 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-3-061120 | 2017061-09 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-3-061120 | 2017061-09 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-3-061120 | 2017061-09 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-3-061120 | 2017061-09 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-3-061120 | 2017061-09 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| EB-3-061120 | 2017061-09 | Dibromochloromethane | 6/12/2020 | 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 |
| EB-3-061120 | 2017061-09 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-3-061120 | 2017061-09 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-3-061120 | 2017061-09 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-3-061120 | 2017061-09 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| EB-3-061120 | 2017061-09 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| EB-3-061120 | 2017061-09 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-3-061120 | 2017061-09 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| EB-3-061120 | 2017061-09 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-3-061120 | 2017061-09 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-3-061120 | 2017061-09 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-3-061120 | 2017061-09 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-3-061120 | 2017061-09 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| EB-3-061120 | 2017061-09 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| EB-3-061120 | 2017061-09 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-3-061120 | 2017061-09 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| EB-3-061120 | 2017061-09 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-3-061120 | 2017061-09 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-3-061120 | 2017061-09 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-3-061120 | 2017061-09 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-3-061120 | 2017061-09 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-3-061120 | 2017061-09 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| EB-3-061120 | 2017061-09 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| EB-3-061120 | 2017061-09 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| EB-3-061120 | 2017061-09 | Methyl acrylate | 6/12/2020 | 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-3-061120 | 2017061-09 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| EB-3-061120 | 2017061-09 | Chloroform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| EB-3-061120 | 2017061-09 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-3-061120 | 2017061-09 | Tetrachloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.6 | Y | y | v s | | | | ug/L |
| EB-3-061120 | 2017061-09 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-3-061120 | 2017061-09 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| EB-3-061120 | 2017061-09 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-3-061120 | 2017061-09 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-3-061120 | 2017061-09 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| EB-3-061120 | 2017061-09 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-3-061120 | 2017061-09 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-3-061120 | 2017061-09 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-3-061120 | 2017061-09 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-3-061120 | 2017061-09 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| EB-3-061120 | 2017061-09 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-3-061120 | 2017061-09 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-3-061120 | 2017061-09 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-3-061120 | 2017061-09 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| EB-3-061120 | 2017061-09 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.5 | Y | y | v s | | | | ug/L |
| MW-18-1 | 2017061-03 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-1 | 2017061-03 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-18-1 | 2017061-03 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-18-1 | 2017061-03 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-18-1 | 2017061-03 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-18-1 | 2017061-03 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-18-1 | 2017061-03 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-18-1 | 2017061-03 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-18-1 | 2017061-03 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-18-1 | 2017061-03 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-18-1 | 2017061-03 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-18-1 | 2017061-03 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-18-1 | 2017061-03 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-1 | 2017061-03 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-18-1 | 2017061-03 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-1 | 2017061-03 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-18-1 | 2017061-03 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-1 | 2017061-03 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-18-1 | 2017061-03 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-1 | 2017061-03 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-18-1 | 2017061-03 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-1 | 2017061-03 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-18-1 | 2017061-03 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-1 | 2017061-03 | Chloroform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-1 | 2017061-03 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-1 | 2017061-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-1 | 2017061-03 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-18-1 | 2017061-03 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-1 | 2017061-03 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-1 | 2017061-03 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-18-1 | 2017061-03 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-1 | 2017061-03 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-1 | 2017061-03 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-1 | 2017061-03 | 1,1-Dichloropropene | 6/12/2020 | 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-18-1 | 2017061-03 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-1 | 2017061-03 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-1 | 2017061-03 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-18-1 | 2017061-03 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-1 | 2017061-03 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-1 | 2017061-03 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-1 | 2017061-03 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | Tetrachloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-1 | 2017061-03 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-18-1 | 2017061-03 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-1 | 2017061-03 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-1 | 2017061-03 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-18-1 | 2017061-03 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-1 | 2017061-03 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-1 | 2017061-03 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-18-1 | 2017061-03 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-18-1 | 2017061-03 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-18-1 | 2017061-03 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-1 | 2017061-03 | Bromomethane | 6/12/2020 | 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-18-1 | 2017061-03 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-1 | 2017061-03 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-1 | 2017061-03 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-1 | 2017061-03 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-18-1 | 2017061-03 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-1 | 2017061-03 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-1 | 2017061-03 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-1 | 2017061-03 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-1 | 2017061-03 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-1 | 2017061-03 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-1 | 2017061-03 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-1 | 2017061-03 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-1 | 2017061-03 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-1 | 2017061-03 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-1 | 2017061-03 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-1 | 2017061-03 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-18-2 | 2017061-02 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-18-2 | 2017061-02 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-18-2 | 2017061-02 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-18-2 | 2017061-02 | o-Xylene | 6/12/2020 | 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-18-2 | 2017061-02 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.6 | Y | y | v s | | | | ug/L |
| MW-18-2 | 2017061-02 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-2 | 2017061-02 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-2 | 2017061-02 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-2 | 2017061-02 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-2 | 2017061-02 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-2 | 2017061-02 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-18-2 | 2017061-02 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-18-2 | 2017061-02 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-18-2 | 2017061-02 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-18-2 | 2017061-02 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-18-2 | 2017061-02 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-2 | 2017061-02 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-18-2 | 2017061-02 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-2 | 2017061-02 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-18-2 | 2017061-02 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-18-2 | 2017061-02 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-18-2 | 2017061-02 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-18-2 | 2017061-02 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-2 | 2017061-02 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-2 | 2017061-02 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-18-2 | 2017061-02 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-18-2 | 2017061-02 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-18-2 | 2017061-02 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-18-2 | 2017061-02 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-18-2 | 2017061-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-2 | 2017061-02 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-2 | 2017061-02 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-2 | 2017061-02 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-18-2 | 2017061-02 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-18-2 | 2017061-02 | Chloroform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-2 | 2017061-02 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-2 | 2017061-02 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-18-2 | 2017061-02 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-2 | 2017061-02 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-2 | 2017061-02 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-18-2 | 2017061-02 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-2 | 2017061-02 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-18-2 | 2017061-02 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-18-2 | 2017061-02 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-18-2 | 2017061-02 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-2 | 2017061-02 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-2 | 2017061-02 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | Tetrachloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-18-2 | 2017061-02 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-2 | 2017061-02 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-18-2 | 2017061-02 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-2 | 2017061-02 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-18-2 | 2017061-02 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-18-2 | 2017061-02 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-18-2 | 2017061-02 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-18-2 | 2017061-02 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-18-2 | 2017061-02 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-18-2 | 2017061-02 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-18-2 | 2017061-02 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-2 | 2017061-02 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-18-2 | 2017061-02 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-18-2 | 2017061-02 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-18-2 | 2017061-02 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-18-2 | 2017061-02 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-18-2 | 2017061-02 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-19-1 | 2017061-11 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-19-1 | 2017061-11 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-1 | 2017061-11 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-1 | 2017061-11 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-1 | 2017061-11 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-1 | 2017061-11 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-1 | 2017061-11 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-1 | 2017061-11 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-19-1 | 2017061-11 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-1 | 2017061-11 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-1 | 2017061-11 | Nitrobenzene | 6/12/2020 | 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-19-1 | 2017061-11 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-19-1 | 2017061-11 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-19-1 | 2017061-11 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-1 | 2017061-11 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-19-1 | 2017061-11 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-1 | 2017061-11 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-19-1 | 2017061-11 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-19-1 | 2017061-11 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-1 | 2017061-11 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-19-1 | 2017061-11 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-19-1 | 2017061-11 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-19-1 | 2017061-11 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-1 | 2017061-11 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-19-1 | 2017061-11 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-19-1 | 2017061-11 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-19-1 | 2017061-11 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-19-1 | 2017061-11 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-1 | 2017061-11 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-1 | 2017061-11 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-19-1 | 2017061-11 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-1 | 2017061-11 | Chloroform | 6/12/2020 | 0.62 | Y | y | v | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-1 | 2017061-11 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-1 | 2017061-11 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-1 | 2017061-11 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-1 | 2017061-11 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-19-1 | 2017061-11 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-1 | 2017061-11 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-1 | 2017061-11 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-1 | 2017061-11 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-1 | 2017061-11 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-19-1 | 2017061-11 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-19-1 | 2017061-11 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-19-1 | 2017061-11 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-1 | 2017061-11 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-19-1 | 2017061-11 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-19-1 | 2017061-11 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-19-1 | 2017061-11 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-19-1 | 2017061-11 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-1 | 2017061-11 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-19-1 | 2017061-11 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-1 | 2017061-11 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-1 | 2017061-11 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-1 | 2017061-11 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-1 | 2017061-11 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | Tetrachloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-19-1 | 2017061-11 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | Toluene-d8 (Surrogate) | 6/12/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-19-1 | 2017061-11 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-1 | 2017061-11 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-1 | 2017061-11 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-1 | 2017061-11 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-1 | 2017061-11 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-1 | 2017061-11 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-1 | 2017061-11 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-1 | 2017061-11 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-19-1 | 2017061-11 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-1 | 2017061-11 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-1 | 2017061-11 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-1 | 2017061-11 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-1 | 2017061-11 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-1 | 2017061-11 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-19-1 | 2017061-11 | cis-1,3-Dichloropropene | 6/12/2020 | 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-19-2 | 2017061-04 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-19-2 | 2017061-04 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-2 | 2017061-04 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-2 | 2017061-04 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-2 | 2017061-04 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-2 | 2017061-04 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-2 | 2017061-04 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-19-2 | 2017061-04 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-19-2 | 2017061-04 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-2 | 2017061-04 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | Benzene | 6/12/2020 | 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-19-2 | 2017061-04 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-2 | 2017061-04 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-19-2 | 2017061-04 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-2 | 2017061-04 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-2 | 2017061-04 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-19-2 | 2017061-04 | Chloroform | 6/12/2020 | 1.3 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-2 | 2017061-04 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-19-2 | 2017061-04 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-2 | 2017061-04 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-19-2 | 2017061-04 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-2 | 2017061-04 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-19-2 | 2017061-04 | Hexachloroethane | 6/12/2020 | 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-19-2 | 2017061-04 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-19-2 | 2017061-04 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-19-2 | 2017061-04 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-19-2 | 2017061-04 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-19-2 | 2017061-04 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-19-2 | 2017061-04 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-19-2 | 2017061-04 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-19-2 | 2017061-04 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-19-2 | 2017061-04 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-19-2 | 2017061-04 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | Tetrachloroethene | 6/12/2020 | 1.3 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-2 | 2017061-04 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-2 | 2017061-04 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-19-2 | 2017061-04 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

SDG: 2017061

| Analytical 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 | 2017061-04 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | Trichloroethene | 6/12/2020 | 0.57 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-19-2 | 2017061-04 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-19-2 | 2017061-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-2 | 2017061-04 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-2 | 2017061-04 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-2 | 2017061-04 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-19-2 | 2017061-04 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-19-2 | 2017061-04 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-19-2 | 2017061-04 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-2 | 2017061-04 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-19-2 | 2017061-04 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-19-2 | 2017061-04 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-19-3 | 2017061-05 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-19-3 | 2017061-05 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-19-3 | 2017061-05 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-3 | 2017061-05 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-3 | 2017061-05 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-19-3 | 2017061-05 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-19-3 | 2017061-05 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-19-3 | 2017061-05 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-19-3 | 2017061-05 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-19-3 | 2017061-05 | Methyl methacrylate | 6/12/2020 | 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-19-3 | 2017061-05 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-19-3 | 2017061-05 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-19-3 | 2017061-05 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-19-3 | 2017061-05 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-19-3 | 2017061-05 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.7 | Y | y | v s | | | | ug/L |
| MW-19-3 | 2017061-05 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-3 | 2017061-05 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-3 | 2017061-05 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-3 | 2017061-05 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-3 | 2017061-05 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-3 | 2017061-05 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-3 | 2017061-05 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-3 | 2017061-05 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-19-3 | 2017061-05 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-19-3 | 2017061-05 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-3 | 2017061-05 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-3 | 2017061-05 | Tetrachloroethene | 6/12/2020 | 0.71 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-19-3 | 2017061-05 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-3 | 2017061-05 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-3 | 2017061-05 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-3 | 2017061-05 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-3 | 2017061-05 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-19-3 | 2017061-05 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Toluene-d8 (Surrogate) | 6/12/2020 | 9.9 | Y | y | v s | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-3 | 2017061-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-3 | 2017061-05 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-3 | 2017061-05 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-19-3 | 2017061-05 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-19-3 | 2017061-05 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-3 | 2017061-05 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-19-3 | 2017061-05 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-19-3 | 2017061-05 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-19-3 | 2017061-05 | Trichloroethene | 6/12/2020 | 0.27 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-19-3 | 2017061-05 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-3 | 2017061-05 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-19-3 | 2017061-05 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-3 | 2017061-05 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-19-3 | 2017061-05 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-3 | 2017061-05 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-19-3 | 2017061-05 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-3 | 2017061-05 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-3 | 2017061-05 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | Chloroform | 6/12/2020 | 2.1 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-19-3 | 2017061-05 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|--------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-3 | 2017061-05 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-3 | 2017061-05 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-3 | 2017061-05 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-3 | 2017061-05 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-19-3 | 2017061-05 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-3 | 2017061-05 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-3 | 2017061-05 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-3 | 2017061-05 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-3 | 2017061-05 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-3 | 2017061-05 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-3 | 2017061-05 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-19-3 | 2017061-05 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-3 | 2017061-05 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-3 | 2017061-05 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-3 | 2017061-05 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-3 | 2017061-05 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-3 | 2017061-05 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-3 | 2017061-05 | 1,3-Dichloropropane | 6/12/2020 | 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-19-3 | 2017061-05 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-3 | 2017061-05 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-3 | 2017061-05 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-3 | 2017061-05 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-3 | 2017061-05 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-4 | 2017061-08 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | Chloroform | 6/12/2020 | 1.7 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-4 | 2017061-08 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-19-4 | 2017061-08 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-19-4 | 2017061-08 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-19-4 | 2017061-08 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-19-4 | 2017061-08 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-4 | 2017061-08 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-4 | 2017061-08 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-4 | 2017061-08 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-4 | 2017061-08 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-4 | 2017061-08 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-4 | 2017061-08 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-4 | 2017061-08 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-4 | 2017061-08 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-4 | 2017061-08 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-4 | 2017061-08 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-4 | 2017061-08 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-19-4 | 2017061-08 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-19-4 | 2017061-08 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-19-4 | 2017061-08 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-4 | 2017061-08 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-19-4 | 2017061-08 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-19-4 | 2017061-08 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-19-4 | 2017061-08 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-19-4 | 2017061-08 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-19-4 | 2017061-08 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-4 | 2017061-08 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-19-4 | 2017061-08 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-19-4 | 2017061-08 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-19-4 | 2017061-08 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-4 | 2017061-08 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-19-4 | 2017061-08 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-4 | 2017061-08 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-4 | 2017061-08 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-4 | 2017061-08 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-4 | 2017061-08 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-4 | 2017061-08 | 1-Chlorobutane | 6/12/2020 | 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-19-4 | 2017061-08 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-4 | 2017061-08 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-19-4 | 2017061-08 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-4 | 2017061-08 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-19-4 | 2017061-08 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-4 | 2017061-08 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-19-4 | 2017061-08 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-19-4 | 2017061-08 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-19-4 | 2017061-08 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-4 | 2017061-08 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-19-4 | 2017061-08 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-19-4 | 2017061-08 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-4 | 2017061-08 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-4 | 2017061-08 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-4 | 2017061-08 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-4 | 2017061-08 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-4 | 2017061-08 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-4 | 2017061-08 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-4 | 2017061-08 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-4 | 2017061-08 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-4 | 2017061-08 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-4 | 2017061-08 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-19-4 | 2017061-08 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-4 | 2017061-08 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-4 | 2017061-08 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-19-4 | 2017061-08 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-4 | 2017061-08 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-4 | 2017061-08 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-4 | 2017061-08 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-19-4 | 2017061-08 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-4 | 2017061-08 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-4 | 2017061-08 | Tetrachloroethene | 6/12/2020 | 0.39 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-19-4 | 2017061-08 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-4 | 2017061-08 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-4 | 2017061-08 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-4 | 2017061-08 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-19-4 | 2017061-08 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-4 | 2017061-08 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-5 | 2017061-07 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-19-5 | 2017061-07 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-19-5 | 2017061-07 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-5 | 2017061-07 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-19-5 | 2017061-07 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-5 | 2017061-07 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-19-5 | 2017061-07 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-19-5 | 2017061-07 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-19-5 | 2017061-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-5 | 2017061-07 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-19-5 | 2017061-07 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-5 | 2017061-07 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-5 | 2017061-07 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | Tetrachloroethene | 6/12/2020 | 0.32 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-19-5 | 2017061-07 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-19-5 | 2017061-07 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-5 | 2017061-07 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-5 | 2017061-07 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-19-5 | 2017061-07 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-5 | 2017061-07 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-5 | 2017061-07 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-5 | 2017061-07 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-5 | 2017061-07 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-5 | 2017061-07 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-19-5 | 2017061-07 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.7 | Y | y | v s | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-5 | 2017061-07 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-5 | 2017061-07 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | vs | | | | ug/L |
| MW-19-5 | 2017061-07 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-19-5 | 2017061-07 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-19-5 | 2017061-07 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-19-5 | 2017061-07 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-19-5 | 2017061-07 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-19-5 | 2017061-07 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-19-5 | 2017061-07 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-19-5 | 2017061-07 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-19-5 | 2017061-07 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-19-5 | 2017061-07 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-5 | 2017061-07 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-19-5 | 2017061-07 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-19-5 | 2017061-07 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-5 | 2017061-07 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-19-5 | 2017061-07 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-5 | 2017061-07 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-19-5 | 2017061-07 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-19-5 | 2017061-07 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-19-5 | 2017061-07 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-5 | 2017061-07 | Chloroform | 6/12/2020 | 1.3 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-5 | 2017061-07 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-5 | 2017061-07 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-5 | 2017061-07 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-5 | 2017061-07 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-19-5 | 2017061-07 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-5 | 2017061-07 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-5 | 2017061-07 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-19-5 | 2017061-07 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-5 | 2017061-07 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-5 | 2017061-07 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-5 | 2017061-07 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-19-5 | 2017061-07 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-19-5 | 2017061-07 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-19-5 | 2017061-07 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-19-5 | 2017061-07 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-5 | 2017061-07 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-19-5 | 2017061-07 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-5 | 2017061-07 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-19-5 | 2017061-07 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-19-5 | 2017061-07 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-19-5 | 2017061-07 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-5 | 2017061-07 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-19-5 | 2017061-07 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-19-5 | 2017061-07 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-19-5 | 2017061-07 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| SB-1-061120 | 2017061-10 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| SB-1-061120 | 2017061-10 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| SB-1-061120 | 2017061-10 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| SB-1-061120 | 2017061-10 | Isopropylbenzene | 6/12/2020 | 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-1-061120 | 2017061-10 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| SB-1-061120 | 2017061-10 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| SB-1-061120 | 2017061-10 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| SB-1-061120 | 2017061-10 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| SB-1-061120 | 2017061-10 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| SB-1-061120 | 2017061-10 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| SB-1-061120 | 2017061-10 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| SB-1-061120 | 2017061-10 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| SB-1-061120 | 2017061-10 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| SB-1-061120 | 2017061-10 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| SB-1-061120 | 2017061-10 | Chloroform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| SB-1-061120 | 2017061-10 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| SB-1-061120 | 2017061-10 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| SB-1-061120 | 2017061-10 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| SB-1-061120 | 2017061-10 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| SB-1-061120 | 2017061-10 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| SB-1-061120 | 2017061-10 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| SB-1-061120 | 2017061-10 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| SB-1-061120 | 2017061-10 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| SB-1-061120 | 2017061-10 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| SB-1-061120 | 2017061-10 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| SB-1-061120 | 2017061-10 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| SB-1-061120 | 2017061-10 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| SB-1-061120 | 2017061-10 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| SB-1-061120 | 2017061-10 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| SB-1-061120 | 2017061-10 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| SB-1-061120 | 2017061-10 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| SB-1-061120 | 2017061-10 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| SB-1-061120 | 2017061-10 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| SB-1-061120 | 2017061-10 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.8 | Y | y | v s | | | | ug/L |
| SB-1-061120 | 2017061-10 | Toluene-d8 (Surrogate) | 6/12/2020 | 9.8 | Y | y | v s | | | | ug/L |
| SB-1-061120 | 2017061-10 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| SB-1-061120 | 2017061-10 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| SB-1-061120 | 2017061-10 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| SB-1-061120 | 2017061-10 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| SB-1-061120 | 2017061-10 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| SB-1-061120 | 2017061-10 | Nitrobenzene | 6/12/2020 | 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-1-061120 | 2017061-10 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| SB-1-061120 | 2017061-10 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | Tetrachloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| SB-1-061120 | 2017061-10 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| SB-1-061120 | 2017061-10 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| SB-1-061120 | 2017061-10 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| SB-1-061120 | 2017061-10 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| SB-1-061120 | 2017061-10 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| SB-1-061120 | 2017061-10 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| SB-1-061120 | 2017061-10 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| SB-1-061120 | 2017061-10 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| SB-1-061120 | 2017061-10 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| SB-1-061120 | 2017061-10 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| SB-1-061120 | 2017061-10 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| SB-1-061120 | 2017061-10 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| SB-1-061120 | 2017061-10 | Benzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| SB-1-061120 | 2017061-10 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| SB-1-061120 | 2017061-10 | 1,2,3-Trichloropropane | 6/12/2020 | 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 |
| TB-3-061120 | 2017061-01 | Chloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-3-061120 | 2017061-01 | Vinyl chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2,3-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-3-061120 | 2017061-01 | Ethyl methacrylate | 6/12/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-3-061120 | 2017061-01 | Diethyl ether | 6/12/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| TB-3-061120 | 2017061-01 | trans-1,4-Dichloro-2-butene | 6/12/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| TB-3-061120 | 2017061-01 | Carbon disulfide | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-3-061120 | 2017061-01 | t-Butyl alcohol | 6/12/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-3-061120 | 2017061-01 | t-Amyl Methyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-3-061120 | 2017061-01 | Chloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | Hexachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-3-061120 | 2017061-01 | Bromobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | 2-Hexanone | 6/12/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-3-061120 | 2017061-01 | 1,3,5-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2,4-Trimethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2,3-Trichloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-3-061120 | 2017061-01 | Trichlorofluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | Trichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1,2-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1,1-Trichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2,4-Trichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | Acrylonitrile | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-3-061120 | 2017061-01 | o-Xylene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-3-061120 | 2017061-01 | Benzene | 6/12/2020 | 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 |
| TB-3-061120 | 2017061-01 | 2-Nitropropane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| TB-3-061120 | 2017061-01 | Nitrobenzene | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| TB-3-061120 | 2017061-01 | Methyl acrylate | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| TB-3-061120 | 2017061-01 | 1,1-Dichloropropanone | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| TB-3-061120 | 2017061-01 | 1-Chlorobutane | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| TB-3-061120 | 2017061-01 | Chloroacetonitrile | 6/12/2020 | 0 | Y | y | v | | | | ug/L |
| TB-3-061120 | 2017061-01 | 4-Bromofluorobenzene (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| TB-3-061120 | 2017061-01 | Ethyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2-Dichloroethane-d4 (Surrogate) | 6/12/2020 | 9.2 | Y | y | v s | | | | ug/L |
| TB-3-061120 | 2017061-01 | Acetone | 6/12/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-3-061120 | 2017061-01 | p- & m-Xylenes | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-3-061120 | 2017061-01 | Tetrahydrofuran | 6/12/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-3-061120 | 2017061-01 | Propionitrile | 6/12/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-3-061120 | 2017061-01 | Pentachloroethane | 6/12/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| TB-3-061120 | 2017061-01 | Methyl methacrylate | 6/12/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-3-061120 | 2017061-01 | Methyl isobutyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-3-061120 | 2017061-01 | Methyl iodide | 6/12/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| TB-3-061120 | 2017061-01 | Methyl ethyl ketone | 6/12/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-3-061120 | 2017061-01 | Methacrylonitrile | 6/12/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-3-061120 | 2017061-01 | Toluene-d8 (Surrogate) | 6/12/2020 | 10 | Y | y | v s | | | | ug/L |
| TB-3-061120 | 2017061-01 | Toluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | Dichlorodifluoromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | 1,4-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | 1,3-Dichlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2-Dichlorobenzene | 6/12/2020 | 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 |
| TB-3-061120 | 2017061-01 | Dibromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2-Dibromoethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2-Dibromo-3-chloropropane | 6/12/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-3-061120 | 2017061-01 | Dibromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | 2-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | Chloroform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | Chlorobenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | Allyl chloride | 6/12/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-3-061120 | 2017061-01 | tert-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-3-061120 | 2017061-01 | sec-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-3-061120 | 2017061-01 | n-Butylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | Bromomethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-3-061120 | 2017061-01 | Bromoform | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-3-061120 | 2017061-01 | Bromodichloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-3-061120 | 2017061-01 | Bromochloromethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-3-061120 | 2017061-01 | 4-Chlorotoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-3-061120 | 2017061-01 | Naphthalene | 6/12/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| TB-3-061120 | 2017061-01 | Carbon tetrachloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2-Dichloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1,2,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1,1,2-Tetrachloroethane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-3-061120 | 2017061-01 | n-Propylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-3-061120 | 2017061-01 | Tetrachloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-3-061120 | 2017061-01 | Methyl t-butyl ether | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

SDG: 2017061

| 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-3-061120 | 2017061-01 | Methylene chloride | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-3-061120 | 2017061-01 | p-Isopropyltoluene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | Isopropylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | 1,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-3-061120 | 2017061-01 | Styrene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-3-061120 | 2017061-01 | Hexachlorobutadiene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-3-061120 | 2017061-01 | trans-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-3-061120 | 2017061-01 | cis-1,2-Dichloroethene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-3-061120 | 2017061-01 | 1,3-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-3-061120 | 2017061-01 | 2,2-Dichloropropane | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-3-061120 | 2017061-01 | 1,1-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-3-061120 | 2017061-01 | cis-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-3-061120 | 2017061-01 | trans-1,3-Dichloropropene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-3-061120 | 2017061-01 | Ethylbenzene | 6/12/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

| Analytical Method | | EPA-8270C | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Dieldrin | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.39 | ug/L |
| MW-19-2 | 2017061-04 | 1,3-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 1,4-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.27 | ug/L |
| MW-19-2 | 2017061-04 | bis(2-Chloroisopropyl)ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Diethyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Dimethyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|----------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Di-n-butyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 2,6-Dinitrotoluene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Di-n-octyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | Dibenzofuran | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 2,4-Dinitrotoluene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-19-2 | 2017061-04 | Dibenzo[a,h]anthracene | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.34 | ug/L |
| MW-19-2 | 2017061-04 | 4,4'-DDT | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-19-2 | 2017061-04 | 4,4'-DDE | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.24 | ug/L |
| MW-19-2 | 2017061-04 | 4,4'-DDD | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-19-2 | 2017061-04 | Chrysene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 4-Chlorophenyl phenyl ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 2-Chloronaphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 4-Chloroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-19-2 | 2017061-04 | 4-Bromophenyl phenyl ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 2-Naphthylamine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 1.3 | ug/L |
| MW-19-2 | 2017061-04 | Resorcinol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Diphenylhydrazine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | bis(2-Ethylhexyl)phthalate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Captafol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 2-Fluorophenol (Surrogate) | 6/17/2020 | 25 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | Phenol-d5 (Surrogate) | 6/17/2020 | 16 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | Nitrobenzene-d5 (Surrogate) | 6/17/2020 | 35 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | 2-Fluorobiphenyl (Surrogate) | 6/17/2020 | 30 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | 2,4,6-Tribromophenol (Surrogate) | 6/17/2020 | 37 | Y | y | v s | | | | ug/L |
| MW-19-2 | 2017061-04 | p-Terphenyl-d14 (Surrogate) | 6/17/2020 | 12 | Y | y | v s | | | | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|---|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | 1-Acetyl-2-thiourea | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 2-Aminoanthraquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 3-Amino-9-ethylcarbazole | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Anilazine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | o-Anisidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Azinphos methyl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Barban | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Demeton-O | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 5-Chloro-2-methylaniline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Pentachlorobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Crotoxyphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | p-Cresidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Coumaphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 4-Chloro-1,3-phenylenediamine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | p-Benzoquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 3-(Chloromethyl) pyridine hydrochloride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Bromoxynil | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Chlorfenvinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Carbophenothion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Carbofuran | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Carbaryl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Captan | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | o,o,o-Triethylphosphorothioate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-19-2 | 2017061-04 | 4-Chloro-1,2-phenylenediamine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | PCB-1242 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|---------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Tris(hydroxymethyl)nitromethane | 6/17/2020 | 50 | Y | n | u | | 50 | 5.0 | ug/L |
| MW-19-2 | 2017061-04 | Piperonyl sulfoxide | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | PCB-1254 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | Endosulfan I | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.31 | ug/L |
| MW-19-2 | 2017061-04 | PCB-1260 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | PCB-1262 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | PCB-1268 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | Total PCB's (Summation) | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | 2-Picoline | 6/17/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-19-2 | 2017061-04 | Phorate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.35 | ug/L |
| MW-19-2 | 2017061-04 | 1,4-Phenylenediamine | 6/17/2020 | 20 | Y | n | u | | 20 | 1.1 | ug/L |
| MW-19-2 | 2017061-04 | Phenacetin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.75 | ug/L |
| MW-19-2 | 2017061-04 | Pentachloronitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.42 | ug/L |
| MW-19-2 | 2017061-04 | Pentachloroethane | 6/17/2020 | 20 | Y | n | u | | 20 | 0.31 | ug/L |
| MW-19-2 | 2017061-04 | PCB-1232 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | Sulfotep | 6/17/2020 | 10 | Y | n | u | | 10 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | Demeton-S | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Toxaphene | 6/17/2020 | 100 | Y | n | u | | 100 | 50 | ug/L |
| MW-19-2 | 2017061-04 | 2-Toluidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.41 | ug/L |
| MW-19-2 | 2017061-04 | Thionazin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.38 | ug/L |
| MW-19-2 | 2017061-04 | 2,3,4,6-Tetrachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-19-2 | 2017061-04 | PCB-1016 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | 1,2,4,5-Tetrachlorobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 1,3,5-Trinitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 1.4 | ug/L |
| MW-19-2 | 2017061-04 | Safrole | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Pyridine | 6/17/2020 | 10 | Y | n | u | | 10 | 1.6 | ug/L |
| MW-19-2 | 2017061-04 | Prowl | 6/17/2020 | 10 | Y | n | u | | 10 | 0.83 | ug/L |
| MW-19-2 | 2017061-04 | Propyleneglycol monomethyl ether acetate | 6/17/2020 | 10 | Y | n | u | | 10 | 3.7 | ug/L |
| MW-19-2 | 2017061-04 | Pronamide | 6/17/2020 | 10 | Y | n | u | | 10 | 0.22 | ug/L |
| MW-19-2 | 2017061-04 | Prometryn | 6/17/2020 | 10 | Y | n | u | | 10 | 1.7 | ug/L |
| MW-19-2 | 2017061-04 | 2,3,4,5-Tetrachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-19-2 | 2017061-04 | Phthalic anhydride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Mexacarbate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Mirex | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Monocrotophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Naled | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Nicotine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 5-Nitroacenaphthene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 5-Nitro-o-anisidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 4-Nitrobiphenyl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Nitrophen | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Octamethylpyrophosphoramidate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 4,4'-Oxydianiline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Phenobarbital | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Phosalone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 2-Cyclohexyl-4,6-dinitrophenol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | TEPP | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Tri-p-tolyl phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Tris(2,3-dibromopropyl) phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|------------------------------------|-----------|--------|--------|--------|----------|----------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Trimethyl phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 2,4,5-Trimethylaniline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Trifluralin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Phosmet | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Thiophenol (Benzenethiol) | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Phosphamidon | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Tetrachlorvinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Terbufos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Sulfallate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Strychnine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Propylthiouracil | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 4,4'-Methylenebis(2-chloroaniline) | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Toluene 2,4-diisocyanate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dicrotophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Mevinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1,4-Dinitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dinitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 3,3'-Dimethoxybenzidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dihydrosafrole | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dioxathion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Diethylstilbestrol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 5,5-Diphenylhydantoin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dichlorvos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dichlone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Dibenzo[a,e]pyrene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dibenz[a,j]acridine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 2,4-Diaminotoluene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Diethyl sulfate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Fluchloralin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | PCB-1248 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | Mestranol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Maleic Anhydride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Malathion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Leptophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Dinocap | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Hexamethylphosphoramide | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | 4,4'-Methylenebis[N,N-dimethylaniline] | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Fenthion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Fensulfothion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Ethyl carbamate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Ethion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | EPN | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Endrin ketone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | Hydroquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-19-2 | 2017061-04 | PCB-1221 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-19-2 | 2017061-04 | Naphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 1,2,4-Trichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Acenaphthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Acenaphthylene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Aldrin | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | Aniline | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.28 | ug/L |
| MW-19-2 | 2017061-04 | Anthracene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Benzidine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 1.6 | ug/L |
| MW-19-2 | 2017061-04 | Benzo[a]anthracene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | Benzo[b]fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.24 | ug/L |
| MW-19-2 | 2017061-04 | Benzo[k]fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-19-2 | 2017061-04 | Benzo[a]pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Phenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | Benzoic acid | 6/17/2020 | 10 | Y | n | u | | 10 | 0.52 | ug/L |
| MW-19-2 | 2017061-04 | 2,4-Dimethylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Benzyl butyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosopyrrolidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.39 | ug/L |
| MW-19-2 | 2017061-04 | beta-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | delta-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | gamma-BHC (Lindane) | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | bis(2-Chloroethoxy)methane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | bis(2-Chloroethyl) ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-19-2 | 2017061-04 | 2-Methylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 3- & 4-Methylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-19-2 | 2017061-04 | Total Methylphenol | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.60 | ug/L |
| MW-19-2 | 2017061-04 | 2-Nitrophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 4-Nitrophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-19-2 | 2017061-04 | Pentachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-19-2 | 2017061-04 | Benzo[g,h,i]perylene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Heptachlor | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Endosulfan II | 6/17/2020 | 10 | Y | n | u | | 10 | 0.30 | ug/L |
| MW-19-2 | 2017061-04 | Endosulfan sulfate | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | Endrin | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.38 | ug/L |
| MW-19-2 | 2017061-04 | Endrin aldehyde | 6/17/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-19-2 | 2017061-04 | Fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.28 | ug/L |
| MW-19-2 | 2017061-04 | Fluorene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 3,3-Dichlorobenzidine | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-19-2 | 2017061-04 | Heptachlor epoxide | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-19-2 | 2017061-04 | Hexachlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.25 | ug/L |
| MW-19-2 | 2017061-04 | Hexachlorobutadiene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Hexachlorocyclopentadiene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-19-2 | 2017061-04 | Hexachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Indeno[1,2,3-cd]pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.29 | ug/L |
| MW-19-2 | 2017061-04 | 2,4-Dinitrophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosodi-N-propylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-19-2 | 2017061-04 | alpha-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 2,4-Dichlorophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | 2-Chlorophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 4-Chloro-3-methylphenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-19-2 | 2017061-04 | Isophorone | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosodiphenylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 2-Methylnaphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosodimethylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 1.2 | ug/L |

SDG: 2017061

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Nitrobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 4-Nitroaniline | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.38 | ug/L |
| MW-19-2 | 2017061-04 | 3-Nitroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-19-2 | 2017061-04 | 2-Nitroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | 4,6-Dinitro-2-methylphenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.24 | ug/L |
| MW-19-2 | 2017061-04 | Phenanthrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Methyl methanesulfonate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-19-2 | 2017061-04 | Ethyl methanesulfonate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-19-2 | 2017061-04 | Ethyl Parathion | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-19-2 | 2017061-04 | Famphur | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 4.1 | ug/L |
| MW-19-2 | 2017061-04 | Hexachlorophene | 6/17/2020 | 200 | Y | n | u | UJ | 200 | 20 | ug/L |
| MW-19-2 | 2017061-04 | Hexachloropropene | 6/17/2020 | 20 | Y | n | u | | 20 | 0.23 | ug/L |
| MW-19-2 | 2017061-04 | Isodrin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.43 | ug/L |
| MW-19-2 | 2017061-04 | 2,4,5-Trichlorophenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | trans-Isosafrole | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.29 | ug/L |
| MW-19-2 | 2017061-04 | Benzyl alcohol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Kepone | 6/17/2020 | 20 | Y | n | u | | 20 | 2.2 | ug/L |
| MW-19-2 | 2017061-04 | Methapyrilene | 6/17/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-19-2 | 2017061-04 | Methoxychlor | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Ethyl methacrylate | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 1.2 | ug/L |
| MW-19-2 | 2017061-04 | Methyl methacrylate | 6/17/2020 | 40 | Y | n | u | | 40 | 3.8 | ug/L |
| MW-19-2 | 2017061-04 | cis-Isosafrole | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.44 | ug/L |
| MW-19-2 | 2017061-04 | 1-Methylnaphthalene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-19-2 | 2017061-04 | Methyl parathion | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.71 | ug/L |
| MW-19-2 | 2017061-04 | N-Methyl-2-pyrrolidinone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.5 | ug/L |

SDG: 2017061

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | 1,4-Naphthoquinone | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.87 | ug/L |
| MW-19-2 | 2017061-04 | 1-Naphthylamine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.30 | ug/L |
| MW-19-2 | 2017061-04 | 5-Nitro-o-toluidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.85 | ug/L |
| MW-19-2 | 2017061-04 | 4-Nitroquinoline 1-oxide | 6/17/2020 | 20 | Y | n | u | | 20 | 0.95 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosodibutylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosodiethylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.55 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosomethylethylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosomorpholine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.63 | ug/L |
| MW-19-2 | 2017061-04 | N-Nitrosopiperidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.47 | ug/L |
| MW-19-2 | 2017061-04 | 3-Methylcholanthrene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.31 | ug/L |
| MW-19-2 | 2017061-04 | Benefin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.88 | ug/L |
| MW-19-2 | 2017061-04 | cis-Diallate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 2.4 | ug/L |
| MW-19-2 | 2017061-04 | 1-Chloronaphthalene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-19-2 | 2017061-04 | Chlorobenzilate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-19-2 | 2017061-04 | trans-Chlordane | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.55 | ug/L |
| MW-19-2 | 2017061-04 | cis-Chlordane | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 0.59 | ug/L |
| MW-19-2 | 2017061-04 | Carbazole | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | trans-Diallate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.56 | ug/L |
| MW-19-2 | 2017061-04 | Disulfoton | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.33 | ug/L |
| MW-19-2 | 2017061-04 | 1,1-Biphenyl | 6/17/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-19-2 | 2017061-04 | Isosafrole | 6/17/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-19-2 | 2017061-04 | Aramite | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.35 | ug/L |
| MW-19-2 | 2017061-04 | 4-Aminobiphenyl | 6/17/2020 | 20 | Y | n | u | | 20 | 0.35 | ug/L |
| MW-19-2 | 2017061-04 | Acrolein, dimethyl acetal | 6/17/2020 | 40 | Y | n | u | | 40 | 6.1 | ug/L |
| MW-19-2 | 2017061-04 | 2-Acetylaminofluorene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.78 | ug/L |

SDG: 2017061

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|--------------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-8270C | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-19-2 | 2017061-04 | Acetophenone | 6/17/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-19-2 | 2017061-04 | 2,4,6-Trichlorophenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-19-2 | 2017061-04 | Caprolactam | 6/17/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-19-2 | 2017061-04 | Dimethyl sulfoxide (DMSO) | 6/17/2020 | 10 | Y | n | u | | 10 | 9.5 | ug/L |
| MW-19-2 | 2017061-04 | Benzaldehyde | 6/17/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-19-2 | 2017061-04 | Diallate | 6/17/2020 | 10 | Y | n | u | | 10 | 3.0 | ug/L |
| MW-19-2 | 2017061-04 | Diphenylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-19-2 | 2017061-04 | 1,3-Dinitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.93 | ug/L |
| MW-19-2 | 2017061-04 | a,a-Dimethylphenethylamine | 6/17/2020 | 20 | Y | n | u | | 20 | 4.9 | ug/L |
| MW-19-2 | 2017061-04 | 3,3'-Dimethylbenzidine | 6/17/2020 | 20 | Y | n | u | | 20 | 0.42 | ug/L |
| MW-19-2 | 2017061-04 | p-(Dimethylamino)azobenzene | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.27 | ug/L |
| MW-19-2 | 2017061-04 | 2,6-Dichlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.28 | ug/L |
| MW-19-2 | 2017061-04 | Dimethoate | 6/17/2020 | 20 | Y | n | u | | 20 | 0.99 | ug/L |
| MW-19-2 | 2017061-04 | 7,12-Dimethylbenz[a]anthracene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-19-2 | 2017061-04 | Dinoseb | 6/17/2020 | 10 | Y | n | u | | 10 | 0.91 | ug/L |
| Analytical Method | | | | | | | | | | | |
| SM-2320B | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-1-2Q2020 | 2017061-06 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Total Alkalinity as CaCO3 | 6/16/2020 | 180 | Y | y | v | | 4.1 | 4.1 | mg/L |
| DUP-1-2Q2020 | 2017061-06 | Bicarbonate | 6/16/2020 | 220 | Y | y | v | | 5.0 | 5.0 | mg/L |
| EB-3-061120 | 2017061-09 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| EB-3-061120 | 2017061-09 | Total Alkalinity as CaCO3 | 6/16/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| EB-3-061120 | 2017061-09 | Bicarbonate | 6/16/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-18-1 | 2017061-03 | Total Alkalinity as CaCO3 | 6/16/2020 | 150 | Y | y | v | | 4.1 | 4.1 | mg/L |

SDG: 2017061

Analytical Method SM-2320B

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|-----|-------|
| MW-18-1 | 2017061-03 | Bicarbonate | 6/16/2020 | 180 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-18-1 | 2017061-03 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-18-2 | 2017061-02 | Bicarbonate | 6/16/2020 | 200 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-18-2 | 2017061-02 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-18-2 | 2017061-02 | Total Alkalinity as CaCO3 | 6/16/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-19-1 | 2017061-11 | Total Alkalinity as CaCO3 | 6/16/2020 | 130 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-19-1 | 2017061-11 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-19-1 | 2017061-11 | Bicarbonate | 6/16/2020 | 160 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-19-2 | 2017061-04 | Bicarbonate | 6/16/2020 | 300 | Y | y | v | | 10 | 10 | mg/L |
| MW-19-2 | 2017061-04 | Carbonate | 6/16/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-19-2 | 2017061-04 | Total Alkalinity as CaCO3 | 6/16/2020 | 240 | Y | y | v | | 8.2 | 8.2 | mg/L |
| MW-19-3 | 2017061-05 | Total Alkalinity as CaCO3 | 6/16/2020 | 180 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-19-3 | 2017061-05 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-19-3 | 2017061-05 | Bicarbonate | 6/16/2020 | 220 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-19-4 | 2017061-08 | Bicarbonate | 6/16/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-19-4 | 2017061-08 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-19-4 | 2017061-08 | Total Alkalinity as CaCO3 | 6/16/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-19-5 | 2017061-07 | Total Alkalinity as CaCO3 | 6/16/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-19-5 | 2017061-07 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-19-5 | 2017061-07 | Bicarbonate | 6/16/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |
| SB-1-061120 | 2017061-10 | Bicarbonate | 6/16/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| SB-1-061120 | 2017061-10 | Carbonate | 6/16/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| SB-1-061120 | 2017061-10 | Total Alkalinity as CaCO3 | 6/16/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017168

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-4-061220 | 2017168-01 | Water | 06/12/20 |
| MW-3-2 | 2017168-02 | Water | 06/12/20 |
| MW-3-5 | 2017168-03 | Water | 06/12/20 |
| MW-3-4 | 2017168-04 | Water | 06/12/20 |
| MW-3-3 | 2017168-05 | Water | 06/12/20 |
| MW-3-1 | 2017168-06 | Water | 06/12/20 |
| EB-4-061220 | 2017168-07 | Water | 06/12/20 |
| MW-3-2MS | 2017168-02MS | Water | 06/12/20 |
| MW-3-2MSD | 2017168-02MSD | Water | 06/12/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/02/20 | Diethyl ether | 74.0 | All samples in SDG 2017168 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|--|----------------------|----------------------------|--|--------|
| 06/17/20 (17JUN03) | Bromoform Naphthalene 1,2,4-Trichlorobenzene | 38.0 41.2 31.4 | All samples in SDG 2017168 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|--|--------------|-------------------------------|--|--------|
| 06/17/20 (17JUN04) | trans-1,4-Dichloro-2-butene Methyl iodide | 10.6 60.0 | All samples in SDG 2017168 | 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-4-061220 was identified as a trip blank. No contaminants were found.

Sample EB-4-061220 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 ICV %D and continuing calibration %D, data were qualified as estimated in seven samples.

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

NASA JPL, 2Q2020

Volatiles - Data Qualification Summary - SDG 2017168

| Sample | Compound | Flag | A or P | Reason |
|--|--|--|--------|---------------------------------------|
| TB-4-061220 MW-3-2 MW-3-5 MW-3-4 MW-3-3 MW-3-1 EB-4-061220 | Diethyl ether | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-4-061220 MW-3-2 MW-3-5 MW-3-4 MW-3-3 MW-3-1 EB-4-061220 | Bromoform Naphthalene 1,2,4-Trichlorobenzene trans-1,4-Dichloro-2-butene Methyl iodide | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020

Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017168

No Sample Data Qualified in this SDG

LDC #: 48646D1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017168

Level III

Laboratory: BC Laboratories, Inc.

Date: 5/1/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: _____

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

| | Validation Area | | Comments |
|-------|--|----|---------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A | RSD = 20% . Y = 100 ≤ 30% |
| IV. | Continuing calibration | A | CCV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB = 1. EB = 7 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | 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-4-061220 | 2017168-01 | Water | 06/12/20 |
| 2 | MW-3-2 | 2017168-02 | Water | 06/12/20 |
| 3 | MW-3-5 | 2017168-03 | Water | 06/12/20 |
| 4 | MW-3-4 | 2017168-04 | Water | 06/12/20 |
| 5 | MW-3-3 | 2017168-05 | Water | 06/12/20 |
| 6 | MW-3-1 | 2017168-06 | Water | 06/12/20 |
| 7 | EB-4-061220 | 2017168-07 | Water | 06/12/20 |
| 8 | MW-3-2MS | 2017168-02MS | Water | 06/12/20 |
| 9 | MW-3-2MSD | 2017168-02MSD | Water | 06/12/20 |
| 10 | | | | |

Notes:

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

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Semivolatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017168

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-3-2 | 2017168-02 | Water | 06/12/20 |

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:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) SW 846 Method 8270C

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

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

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered 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

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|----------|---|--|-------------------------------|--|--------|
| 06/15/20 | Benzidine Endosulfan I 2-Naphthylamine cis-Chlordane Famphur 1-Naphthylamine | 56.06873 18.33888 49.74228 32.46043 40.31817 37.88838 | All samples in SDG 2017168 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

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 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|--|--------------------------------------|-------------------------------|--|--|--------|
| 06/16/20 (16JUN003) | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | 25.2 27.2 25.9 20.8 33.4 | All samples in SDG 2017168 | Benzidine 2,2'-Oxybis(1-chloropropane) 3,3'-Dichlorobenzidine Heptachlor 2-Naphthylamine | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A |

| Date | Compound | %D | Associated Samples | Affected Compound | Flag | A or P |
|------------------------|-----------------------------|------------|-------------------------------|-----------------------------|----------------------|--------|
| 06/16/20 (16JUN004) | Aramite | 20.9 | All samples in SDG 2017168 | Aramite | UJ (all non-detects) | A |
| | p-(Dimethylamino)azobenzene | 23.9 | | p-(Dimethylamino)azobenzene | UJ (all non-detects) | |
| | Disulfoton | 22.6 | | Disulfoton | UJ (all non-detects) | |
| | Ethyl methacrylate | 31.2 | | Ethyl methacrylate | UJ (all non-detects) | |
| | Ethyl Parathion | 23.9 | | Ethyl Parathion | UJ (all non-detects) | |
| | Methyl parathion | 26.3 | | Methyl parathion | UJ (all non-detects) | |
| | 1,4-Naphthoquinone | 33.7 | | 1,4-Naphthoquinone | UJ (all non-detects) | |
| | Hexachlorophene | 36.1 | | Hexachlorophene | UJ (all non-detects) | |
| | PCB-1260 | 22.7 | | PCB-1260 | UJ (all non-detects) | |
| | | | | PCB-1016 | UJ (all non-detects) | |
| | | | | PCB-1221 | UJ (all non-detects) | |
| | | | | PCB-1232 | UJ (all non-detects) | |
| | | | | PCB-1242 | UJ (all non-detects) | |
| | | | | PCB-1248 | UJ (all non-detects) | |
| | | PCB-1254 | UJ (all non-detects) | | | |
| | | PCB-1262 | UJ (all non-detects) | | | |
| | | PCB-1268 | UJ (all non-detects) | | | |
| | | Total PCBs | UJ (all non-detects) | | | |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Affected Compound | Flag | A or P |
|--------|--------------------|-----------------------|--|------|--------|
| MW-3-2 | Perylene-d12 | 321798 (73853-295412) | Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene 3-Methylcholanthrene | NA | - |

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 initial calibration %RSD and ICV %D, data were qualified as estimated in one sample.

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

LDC #: 48646D2a
 SDG #: 2017168
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 8/1/20
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: _____

METHOD: GC/MS Semivolatiles (EPA SW846 Method 8270C)

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

| | Validation Area | | Comments |
|-------|--|-------|-------------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | NI/NI | RSO ≤ 15% / 20% .1% 1e/ ≤ 20% |
| IV. | Continuing calibration | A | CCV ≤ 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LC |
| X. | Field duplicates | N | |
| XI. | Internal standards | NI | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-3-2 | 2017168-02 | Water | 06/12/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
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| 8 | | | | |
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Notes:

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VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

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

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

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

| # | Date | Standard ID | Compound | Finding %D (Limit: $\leq 30.0\%$) | Associated Samples | Qualifications |
|---|---------|-------------|-----------------------------|---------------------------------------|--------------------|-------------------------------|
| | 6/16/20 | 16JUN003 | SSS | 25.2 | All (ND) | J/UJ/A |
| | | | H | 27.2 | | |
| | | | BBB | 25.9 | | |
| | | | Heptachlor | 20.8 | | |
| | | | R1 | 33.4 | | |
| | 6/16/20 | 16JUN004 | Aramite | 20.9 | | |
| | | | p-(Dimethylamino)azobenzene | 23.9 | | |
| | | | Disilfoton | 22.6 | | |
| | | | Ethyl methacrylate | 31.2 | | |
| | | | Ethyl Parathion | 23.9 | | |
| | | | Methyl parathion | 26.3 | | |
| | | | M1 | 33.7 | | |
| | | | Hexachlorophene | 36.1 | | |
| | | | PCB-1260 | 27.7 | | |
| | | | | | | |
| | | | | | | 1248,1254,1260,1262,1268, and |
| | | | | | | Total PCBS) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Semi-Volatile Internal Standards

| 1,4-Dichlorobenzene-d4 (DCB) | Naphthalene-d8 (NPT) | Acenaphthene-d10 (ANT) |
|---|---|---|
| Phenol Bis(2-chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol Bis(2-chloroisopropyl)ether 3+4-Methylphenol N-Nitroso-d-n-propylamine Hexachoroethane N-Nitrosodimethylamine | Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methynaphthalene 1,2,4-Trichlorobenzene Benzoic acid | 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether Fluorene 4-Nitroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol |
| Phenanthrene-d10 (PHN) | Chrysene-d12 (CRY) | Perylene-d12 (PRY) |
| N-Nitrosodiphenylamine 4-Bromophenyl-phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene 4,6-Dinitro-2-methylphenol | Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate | Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene 3-Methylcholanthrene |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017168

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-3-2 | 2017168-02 | Water | 06/12/20 |
| MW-3-5 | 2017168-03 | Water | 06/12/20 |
| MW-3-4 | 2017168-04 | Water | 06/12/20 |
| MW-3-3 | 2017168-05 | Water | 06/12/20 |
| MW-3-1 | 2017168-06 | Water | 06/12/20 |
| EB-4-061220 | 2017168-07 | Water | 06/12/20 |

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|-----------|-----------------------|----------------------------|
| ICB/CCB | Potassium | 0.10966 ug/L | All samples in SDG 2017168 |

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.

VI. Field Blanks

Sample EB-4-061220 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Collection Date | Analyte | Concentration |
|-------------|-----------------|-------------------|-------------------------|
| EB-4-061220 | 06/12/20 | Calcium Sodium | 0.054 mg/L 0.14 mg/L |

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017168

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017168

No Sample Data Qualified in this SDG

LDC #: 48646D4a
 SDG #: 2017168
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 8/4/20

Page: 1 of 1

Reviewer: Dm

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|------|--------------|
| I. | Sample receipt/Technical holding times | A, A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | FB = 6 |
| VII. | Matrix Spike/Matrix Spike Duplicates | N | |
| VIII. | Duplicate sample analysis | N | |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | LCS |
| XI. | Field Duplicates | N | |
| XII. | Internal Standard (ICP-MS) | N | NOT REVIEWED |
| XIII. | Sample Result Verification | N | |
| XIV. | Overall Assessment of Data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|------------|--------|----------|
| 1 | MW-3-2 | 2017168-02 | Water | 06/12/20 |
| 2 | MW-3-5 | 2017168-03 | Water | 06/12/20 |
| 3 | MW-3-4 | 2017168-04 | Water | 06/12/20 |
| 4 | MW-3-3 | 2017168-05 | Water | 06/12/20 |
| 5 | MW-3-1 | 2017168-06 | Water | 06/12/20 |
| 6 | EB-4-061220 | 2017168-07 | Water | 06/12/20 |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes:

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

| Sample ID | Matrix | Target Analyte List (TAL) |
|-----------|--------|---|
| A11 | W | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |

Analysis Method

| | | |
|--------|---|---|
| ICP | W | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| ICP-MS | W | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |
| GFAA | | Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, W, U, V, Zn |

Comments: Mercury by CVAA if performed

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: _____

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: ALL

| | | | | | Sample Identification | | | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (µg/l) | Maximum ICB/CCB ^a (µg/l) | Action Level | NO QUAL | | | | | | | | | | | | | |
| K | | | 0.10966 | 0.5483 | | | | | | | | | | | | | | |

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.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 6, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017168

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-3-2 | 2017168-02 | Water | 06/12/20 |
| MW-3-5 | 2017168-03 | Water | 06/12/20 |
| MW-3-4 | 2017168-04 | Water | 06/12/20 |
| MW-3-3 | 2017168-05 | Water | 06/12/20 |
| MW-3-1 | 2017168-06 | Water | 06/12/20 |
| EB-4-061220 | 2017168-07 | Water | 06/12/20 |
| MW-3-2MS | 2017168-02MS | Water | 06/12/20 |
| MW-3-2MSD | 2017168-02MSD | Water | 06/12/20 |
| MW-3-2DUP | 2017168-02DUP | Water | 06/12/20 |

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|----------------------------|---------|--|---|-----------------|--------|
| All samples in SDG 2017168 | pH | 5 days | 2 days | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

V. Field Blanks

Sample EB-4-061220 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--|--|
| EB-4-061220 | Total dissolved solids Hexavalent chromium Chloride Nitrate as N Sulfate pH | 3.3 mg/L 0.000039 mg/L 0.14 mg/L 0.081 mg/L 0.24 mg/L 4.33 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

Due to technical holding times, data were qualified as estimated in six samples.

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

**NASA JPL, 2Q2020
 Wet Chemistry - Data Qualification Summary - SDG 2017168**

| Sample | Analyte | Flag | A or P | Reason |
|---|---------|-----------------|--------|-------------------------|
| MW-3-2 MW-3-5 MW-3-4 MW-3-3 MW-3-1 EB-4-061220 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
 Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017168**

No Sample Data Qualified in this SDG

LDC #: 48646D6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/4/2020

SDG #: 2017168

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|------|----------|
| I. | Sample receipt/Technical holding times | A SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | A | |
| V | Field blanks | SW | EB=4 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | N | |
| X. | Sample result verification | N | |
| XI | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-3-2 | 2017168-02 | Water | 06/12/20 |
| 2 | MW-3-5 | 2017168-03 | Water | 06/12/20 |
| 3 | MW-3-4 | 2017168-04 | Water | 06/12/20 |
| 4 | MW-3-3 | 2017168-05 | Water | 06/12/20 |
| 5 | MW-3-1 | 2017168-06 | Water | 06/12/20 |
| 6 | EB-4-061220 | 2017168-07 | Water | 06/12/20 |
| 7 | MW-3-2MS | 2017168-02MS | Water | 06/12/20 |
| 8 | MW-3-2MSD | 2017168-02MSD | Water | 06/12/20 |
| 9 | MW-3-2DUP | 2017168-02DUP | Water | 06/12/20 |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |

Notes: _____

VALIDATION FINDINGS WORKSHEET

Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/12/2020 Soil factor applied NA

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

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | | |
|----------|----------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| | 6 | | No Qualifiers | | | | | | | | |
| TDS | 3.3 | | | | | | | | | | |
| Cr6 | 0.000039 | | | | | | | | | | |
| Chloride | 0.14 | | | | | | | | | | |
| NO3-N | 0.081 | | | | | | | | | | |
| SO4 | 0.24 | | | | | | | | | | |
| pH | 4.33 | | | | | | | | | | |
| | | | | | | | | | | | |

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".

NASA JPL, 2Q2020 - LDC# 48646D

SDG: 2017168

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-150.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | pH | 6/17/2020 | 4.33 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-3-1 | 2017168-06 | pH | 6/17/2020 | 7.91 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-3-2 | 2017168-02 | pH | 6/17/2020 | 7.48 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-3-3 | 2017168-05 | pH | 6/17/2020 | 7.55 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-3-4 | 2017168-04 | pH | 6/17/2020 | 7.71 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-3-5 | 2017168-03 | pH | 6/17/2020 | 7.6 | Y | y | v | J | 0.05 | 0.05 | pH Units |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|--------------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-160.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | Total Dissolved Solids @ 180 C | 6/16/2020 | 3.3 | Y | y | v j | J | 6.7 | 3.3 | mg/L |
| MW-3-1 | 2017168-06 | Total Dissolved Solids @ 180 C | 6/16/2020 | 300 | Y | y | v | J | 20 | 10 | mg/L |
| MW-3-2 | 2017168-02 | Total Dissolved Solids @ 180 C | 6/16/2020 | 370 | Y | y | v | J | 20 | 10 | mg/L |
| MW-3-3 | 2017168-05 | Total Dissolved Solids @ 180 C | 6/16/2020 | 370 | Y | y | v | J | 20 | 10 | mg/L |
| MW-3-4 | 2017168-04 | Total Dissolved Solids @ 180 C | 6/16/2020 | 370 | Y | y | v | J | 20 | 10 | mg/L |
| MW-3-5 | 2017168-03 | Total Dissolved Solids @ 180 C | 6/16/2020 | 370 | Y | y | v | J | 20 | 10 | mg/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-200.7 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | Total Recoverable Calcium | 6/18/2020 | 0.054 | Y | y | v j | | 0.10 | 0.014 | mg/L |
| EB-4-061220 | 2017168-07 | Total Recoverable Magnesium | 6/18/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| EB-4-061220 | 2017168-07 | Total Recoverable Potassium | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| EB-4-061220 | 2017168-07 | Total Recoverable Iron | 6/18/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-4-061220 | 2017168-07 | Total Recoverable Sodium | 6/18/2020 | 0.14 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| MW-3-1 | 2017168-06 | Total Recoverable Sodium | 6/18/2020 | 23 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-3-1 | 2017168-06 | Total Recoverable Calcium | 6/18/2020 | 53 | Y | y | v | | 0.10 | 0.014 | mg/L |

SDG: 2017168

Analytical Method EPA-200.7

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-----------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| MW-3-1 | 2017168-06 | Total Recoverable Magnesium | 6/18/2020 | 18 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-3-1 | 2017168-06 | Total Recoverable Iron | 6/18/2020 | 250 | Y | y | v | | 50 | 30 | ug/L |
| MW-3-1 | 2017168-06 | Total Recoverable Potassium | 6/18/2020 | 2.9 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-3-2 | 2017168-02 | Total Recoverable Magnesium | 6/18/2020 | 21 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-3-2 | 2017168-02 | Total Recoverable Calcium | 6/18/2020 | 67 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-3-2 | 2017168-02 | Total Recoverable Iron | 6/18/2020 | 540 | Y | y | v | | 50 | 30 | ug/L |
| MW-3-2 | 2017168-02 | Total Recoverable Potassium | 6/18/2020 | 2.9 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-3-2 | 2017168-02 | Total Recoverable Sodium | 6/18/2020 | 22 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-3-3 | 2017168-05 | Total Recoverable Sodium | 6/18/2020 | 28 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-3-3 | 2017168-05 | Total Recoverable Magnesium | 6/18/2020 | 20 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-3-3 | 2017168-05 | Total Recoverable Calcium | 6/18/2020 | 66 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-3-3 | 2017168-05 | Total Recoverable Potassium | 6/18/2020 | 2.8 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-3-3 | 2017168-05 | Total Recoverable Iron | 6/18/2020 | 9300 | Y | y | v | | 50 | 30 | ug/L |
| MW-3-4 | 2017168-04 | Total Recoverable Sodium | 6/18/2020 | 33 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-3-4 | 2017168-04 | Total Recoverable Magnesium | 6/18/2020 | 21 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-3-4 | 2017168-04 | Total Recoverable Potassium | 6/18/2020 | 2.9 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-3-4 | 2017168-04 | Total Recoverable Iron | 6/18/2020 | 18000 | Y | y | v | | 50 | 30 | ug/L |
| MW-3-4 | 2017168-04 | Total Recoverable Calcium | 6/18/2020 | 68 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-3-5 | 2017168-03 | Total Recoverable Calcium | 6/18/2020 | 70 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-3-5 | 2017168-03 | Total Recoverable Iron | 6/18/2020 | 71000 | Y | y | v | | 50 | 30 | ug/L |
| MW-3-5 | 2017168-03 | Total Recoverable Potassium | 6/18/2020 | 2.8 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-3-5 | 2017168-03 | Total Recoverable Sodium | 6/18/2020 | 33 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-3-5 | 2017168-03 | Total Recoverable Magnesium | 6/18/2020 | 21 | Y | y | v | | 0.050 | 0.019 | mg/L |

SDG: 2017168

| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | Total Recoverable Arsenic | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| EB-4-061220 | 2017168-07 | Total Recoverable Chromium | 6/19/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| EB-4-061220 | 2017168-07 | Total Recoverable Lead | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-3-1 | 2017168-06 | Total Recoverable Chromium | 6/19/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-3-1 | 2017168-06 | Total Recoverable Arsenic | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-3-1 | 2017168-06 | Total Recoverable Lead | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-3-2 | 2017168-02 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-3-2 | 2017168-02 | Total Recoverable Chromium | 6/18/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-3-2 | 2017168-02 | Total Recoverable Arsenic | 6/18/2020 | 0.78 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-3-3 | 2017168-05 | Total Recoverable Chromium | 6/19/2020 | 4.6 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-3-3 | 2017168-05 | Total Recoverable Arsenic | 6/19/2020 | 2.4 | Y | y | v | | 2.0 | 0.70 | ug/L |
| MW-3-3 | 2017168-05 | Total Recoverable Lead | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-3-4 | 2017168-04 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-3-4 | 2017168-04 | Total Recoverable Chromium | 6/18/2020 | 44 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-3-4 | 2017168-04 | Total Recoverable Arsenic | 6/18/2020 | 26 | Y | y | v | | 2.0 | 0.70 | ug/L |
| MW-3-5 | 2017168-03 | Total Recoverable Arsenic | 6/18/2020 | 77 | Y | y | v | | 2.0 | 0.70 | ug/L |
| MW-3-5 | 2017168-03 | Total Recoverable Chromium | 6/18/2020 | 140 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-3-5 | 2017168-03 | Total Recoverable Lead | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |

| Analytical Method | | EPA-218.6 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | Hexavalent Chromium | 6/17/2020 | ##### | Y | y | v j | | 0.0002 | 0.00003 | mg/L |
| MW-3-1 | 2017168-06 | Hexavalent Chromium | 6/17/2020 | ##### | Y | y | v j | | 0.0002 | 0.00003 | mg/L |
| MW-3-2 | 2017168-02 | Hexavalent Chromium | 6/16/2020 | 0.00036 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-3-3 | 2017168-05 | Hexavalent Chromium | 6/16/2020 | 0.00038 | Y | y | v | | 0.0002 | 0.00003 | mg/L |

SDG: 2017168

| 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-3-4 | 2017168-04 | Hexavalent Chromium | 6/16/2020 | 0.00031 | Y | y | v | | 0.0002 | 0.00003 | mg/L |
| MW-3-5 | 2017168-03 | Hexavalent Chromium | 6/16/2020 | 0.00034 | Y | y | v | | 0.0002 | 0.00003 | 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 |
| EB-4-061220 | 2017168-07 | Sulfate | 6/13/2020 | 0.24 | Y | y | v j | | 1.0 | 0.14 | mg/L |
| EB-4-061220 | 2017168-07 | Nitrate as N | 6/13/2020 | 0.081 | Y | y | v j | | 0.10 | 0.024 | mg/L |
| EB-4-061220 | 2017168-07 | Chloride | 6/13/2020 | 0.14 | Y | y | v j | | 0.50 | 0.13 | mg/L |
| MW-3-1 | 2017168-06 | Chloride | 6/13/2020 | 9.8 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-3-1 | 2017168-06 | Nitrate as N | 6/13/2020 | 0.13 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-3-1 | 2017168-06 | Sulfate | 6/13/2020 | 32 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-3-2 | 2017168-02 | Nitrate as N | 6/12/2020 | 0.68 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-3-2 | 2017168-02 | Chloride | 6/12/2020 | 15 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-3-2 | 2017168-02 | Sulfate | 6/12/2020 | 49 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-3-3 | 2017168-05 | Nitrate as N | 6/13/2020 | 1.3 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-3-3 | 2017168-05 | Chloride | 6/13/2020 | 25 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-3-3 | 2017168-05 | Sulfate | 6/13/2020 | 46 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-3-4 | 2017168-04 | Chloride | 6/13/2020 | 31 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-3-4 | 2017168-04 | Nitrate as N | 6/13/2020 | 1.7 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-3-4 | 2017168-04 | Sulfate | 6/13/2020 | 46 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-3-5 | 2017168-03 | Sulfate | 6/13/2020 | 47 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-3-5 | 2017168-03 | Nitrate as N | 6/13/2020 | 1.8 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-3-5 | 2017168-03 | Chloride | 6/13/2020 | 32 | Y | y | v | | 0.50 | 0.13 | mg/L |

| Analytical Method | | EPA-314.0 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

SDG: 2017168

| 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-4-061220 | 2017168-07 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-3-1 | 2017168-06 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-3-2 | 2017168-02 | Perchlorate | 6/18/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-3-3 | 2017168-05 | Perchlorate | 6/18/2020 | 2 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-3-4 | 2017168-04 | Perchlorate | 6/18/2020 | 3 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-3-5 | 2017168-03 | Perchlorate | 6/18/2020 | 2.6 | Y | y | v j | | 4.0 | 0.81 | 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 |
| EB-4-061220 | 2017168-07 | Nitrite as N | 6/12/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-3-1 | 2017168-06 | Nitrite as N | 6/12/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-3-2 | 2017168-02 | Nitrite as N | 6/12/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-3-3 | 2017168-05 | Nitrite as N | 6/12/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-3-4 | 2017168-04 | Nitrite as N | 6/12/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-3-5 | 2017168-03 | Nitrite as N | 6/12/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-524.2 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | Bromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-4-061220 | 2017168-07 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-4-061220 | 2017168-07 | Benzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-4-061220 | 2017168-07 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-4-061220 | 2017168-07 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-4-061220 | 2017168-07 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| EB-4-061220 | 2017168-07 | Vinyl chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |

SDG: 2017168

| 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-4-061220 | 2017168-07 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-4-061220 | 2017168-07 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-4-061220 | 2017168-07 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| EB-4-061220 | 2017168-07 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| EB-4-061220 | 2017168-07 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-4-061220 | 2017168-07 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-4-061220 | 2017168-07 | t-Amyl Methyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-4-061220 | 2017168-07 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| EB-4-061220 | 2017168-07 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-4-061220 | 2017168-07 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| EB-4-061220 | 2017168-07 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-4-061220 | 2017168-07 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-4-061220 | 2017168-07 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | Trichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-4-061220 | 2017168-07 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-4-061220 | 2017168-07 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| EB-4-061220 | 2017168-07 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| EB-4-061220 | 2017168-07 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| EB-4-061220 | 2017168-07 | 1,1-Dichloropropanone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

SDG: 2017168

| 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-4-061220 | 2017168-07 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| EB-4-061220 | 2017168-07 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| EB-4-061220 | 2017168-07 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-4-061220 | 2017168-07 | Toluene-d8 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-4-061220 | 2017168-07 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| EB-4-061220 | 2017168-07 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| EB-4-061220 | 2017168-07 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-4-061220 | 2017168-07 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-4-061220 | 2017168-07 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| EB-4-061220 | 2017168-07 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-4-061220 | 2017168-07 | Methyl isobutyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| EB-4-061220 | 2017168-07 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| EB-4-061220 | 2017168-07 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-4-061220 | 2017168-07 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| EB-4-061220 | 2017168-07 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-4-061220 | 2017168-07 | 1,3-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-4-061220 | 2017168-07 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| EB-4-061220 | 2017168-07 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-4-061220 | 2017168-07 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-4-061220 | 2017168-07 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-4-061220 | 2017168-07 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-4-061220 | 2017168-07 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-4-061220 | 2017168-07 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-4-061220 | 2017168-07 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1,2,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-4-061220 | 2017168-07 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-4-061220 | 2017168-07 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-4-061220 | 2017168-07 | n-Propylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-4-061220 | 2017168-07 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| EB-4-061220 | 2017168-07 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-4-061220 | 2017168-07 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-4-061220 | 2017168-07 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |

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Analytical Method EPA-524.2

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|-------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| EB-4-061220 | 2017168-07 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-4-061220 | 2017168-07 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-4-061220 | 2017168-07 | Hexachlorobutadiene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-4-061220 | 2017168-07 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-4-061220 | 2017168-07 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-1 | 2017168-06 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-1 | 2017168-06 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-1 | 2017168-06 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-1 | 2017168-06 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | Bromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-1 | 2017168-06 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| MW-3-1 | 2017168-06 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-1 | 2017168-06 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-1 | 2017168-06 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | Benzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-1 | 2017168-06 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-1 | 2017168-06 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-3-1 | 2017168-06 | Toluene-d8 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-1 | 2017168-06 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-1 | 2017168-06 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-1 | 2017168-06 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-3-1 | 2017168-06 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-1 | 2017168-06 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-1 | 2017168-06 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-1 | 2017168-06 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | t-Amyl Methyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-1 | 2017168-06 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-3-1 | 2017168-06 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-3-1 | 2017168-06 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-3-1 | 2017168-06 | Vinyl chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-1 | 2017168-06 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-1 | 2017168-06 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-3-1 | 2017168-06 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-1 | 2017168-06 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-3-1 | 2017168-06 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-3-1 | 2017168-06 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-3-1 | 2017168-06 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-3-1 | 2017168-06 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-1 | 2017168-06 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-3-1 | 2017168-06 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-3-1 | 2017168-06 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-1 | 2017168-06 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-1 | 2017168-06 | Methyl isobutyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-3-1 | 2017168-06 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-3-1 | 2017168-06 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-3-1 | 2017168-06 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-3-1 | 2017168-06 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-3-1 | 2017168-06 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-3-1 | 2017168-06 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-1 | 2017168-06 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-3-1 | 2017168-06 | 1,1-Dichloropropanone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-1 | 2017168-06 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-3-1 | 2017168-06 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-1 | 2017168-06 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-1 | 2017168-06 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-1 | 2017168-06 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | Trichloroethene | 6/17/2020 | 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-3-1 | 2017168-06 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-1 | 2017168-06 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-1 | 2017168-06 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-1 | 2017168-06 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-1 | 2017168-06 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-1 | 2017168-06 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-1 | 2017168-06 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-1 | 2017168-06 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-3-1 | 2017168-06 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-1 | 2017168-06 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-1 | 2017168-06 | Hexachlorobutadiene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-1 | 2017168-06 | 1,1,2,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-1 | 2017168-06 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-3-1 | 2017168-06 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-1 | 2017168-06 | 1,3-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-3-1 | 2017168-06 | n-Propylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-1 | 2017168-06 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-1 | 2017168-06 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-1 | 2017168-06 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-1 | 2017168-06 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-1 | 2017168-06 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-3-2 | 2017168-02 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | Hexachlorobutadiene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-2 | 2017168-02 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-2 | 2017168-02 | Benzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-2 | 2017168-02 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-2 | 2017168-02 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-2 | 2017168-02 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| MW-3-2 | 2017168-02 | Bromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-3-2 | 2017168-02 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-2 | 2017168-02 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-3-2 | 2017168-02 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-2 | 2017168-02 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-2 | 2017168-02 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | 1,3-Dichlorobenzene | 6/17/2020 | 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-3-2 | 2017168-02 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-2 | 2017168-02 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-2 | 2017168-02 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-2 | 2017168-02 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-3-2 | 2017168-02 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-2 | 2017168-02 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-3-2 | 2017168-02 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-2 | 2017168-02 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-3-2 | 2017168-02 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-3-2 | 2017168-02 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-3-2 | 2017168-02 | Methyl isobutyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-3-2 | 2017168-02 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-3-2 | 2017168-02 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-3-2 | 2017168-02 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-3-2 | 2017168-02 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-3-2 | 2017168-02 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-3-2 | 2017168-02 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 9.4 | Y | y | v s | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|----------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Toluene-d8 (Surrogate) | 6/17/2020 | 9.9 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 1,1-Dichloropropanone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-2 | 2017168-02 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-3-2 | 2017168-02 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-3-2 | 2017168-02 | n-Propylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-2 | 2017168-02 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-2 | 2017168-02 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-3-2 | 2017168-02 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-2 | 2017168-02 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-3-2 | 2017168-02 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-2 | 2017168-02 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-3-2 | 2017168-02 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-3-2 | 2017168-02 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-3-2 | 2017168-02 | 1,1,2,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | Trichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-2 | 2017168-02 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-3-2 | 2017168-02 | Vinyl chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-2 | 2017168-02 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-2 | 2017168-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-2 | 2017168-02 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-3-2 | 2017168-02 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-2 | 2017168-02 | t-Amyl Methyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-3 | 2017168-05 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-3-3 | 2017168-05 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-3 | 2017168-05 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-3 | 2017168-05 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-3 | 2017168-05 | 1,1-Dichloropropanone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-3 | 2017168-05 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-3 | 2017168-05 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-3 | 2017168-05 | Toluene-d8 (Surrogate) | 6/17/2020 | 9.8 | Y | y | v s | | | | ug/L |
| MW-3-3 | 2017168-05 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-3 | 2017168-05 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-3 | 2017168-05 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-3-3 | 2017168-05 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-3 | 2017168-05 | 1,3-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-3-3 | 2017168-05 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-3 | 2017168-05 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-3 | 2017168-05 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-3 | 2017168-05 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-3-3 | 2017168-05 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-3 | 2017168-05 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-3 | 2017168-05 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-3 | 2017168-05 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-3 | 2017168-05 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-3 | 2017168-05 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-3 | 2017168-05 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | Benzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-3 | 2017168-05 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-3 | 2017168-05 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-3 | 2017168-05 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| MW-3-3 | 2017168-05 | Bromomethane | 6/17/2020 | 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-3-3 | 2017168-05 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-3 | 2017168-05 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-3 | 2017168-05 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-3 | 2017168-05 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-3 | 2017168-05 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-3 | 2017168-05 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-3 | 2017168-05 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-3-3 | 2017168-05 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-3 | 2017168-05 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-3-3 | 2017168-05 | t-Amyl Methyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-3 | 2017168-05 | Hexachlorobutadiene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-3 | 2017168-05 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-3-3 | 2017168-05 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-3-3 | 2017168-05 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-3-3 | 2017168-05 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-3-3 | 2017168-05 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-3-3 | 2017168-05 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-3 | 2017168-05 | n-Propylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-3 | 2017168-05 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-3-3 | 2017168-05 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-3-3 | 2017168-05 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-3 | 2017168-05 | Methyl isobutyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-3-3 | 2017168-05 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-3-3 | 2017168-05 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-3-3 | 2017168-05 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-3-3 | 2017168-05 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-3-3 | 2017168-05 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-3-3 | 2017168-05 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-3 | 2017168-05 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-3-3 | 2017168-05 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-3-3 | 2017168-05 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-3 | 2017168-05 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-3 | 2017168-05 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-3 | 2017168-05 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-3 | 2017168-05 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-3-3 | 2017168-05 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-3 | 2017168-05 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-3-3 | 2017168-05 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-3 | 2017168-05 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-3 | 2017168-05 | Trichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-3 | 2017168-05 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-3-3 | 2017168-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-3 | 2017168-05 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-3 | 2017168-05 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-3 | 2017168-05 | Vinyl chloride | 6/17/2020 | 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-3-3 | 2017168-05 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-3-3 | 2017168-05 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-4 | 2017168-04 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-4 | 2017168-04 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-4 | 2017168-04 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-4 | 2017168-04 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-4 | 2017168-04 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | 1,3-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-3-4 | 2017168-04 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-4 | 2017168-04 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-4 | 2017168-04 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-4 | 2017168-04 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-3-4 | 2017168-04 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-4 | 2017168-04 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-3-4 | 2017168-04 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| MW-3-4 | 2017168-04 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-4 | 2017168-04 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-4 | 2017168-04 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-4 | 2017168-04 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-4 | 2017168-04 | Bromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-4 | 2017168-04 | 1,1-Dichloropropanone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-4 | 2017168-04 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-4 | 2017168-04 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-4 | 2017168-04 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-4 | 2017168-04 | n-Propylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-4 | 2017168-04 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-3-4 | 2017168-04 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-4 | 2017168-04 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-4 | 2017168-04 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-4 | 2017168-04 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-4 | 2017168-04 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-4 | 2017168-04 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-4 | 2017168-04 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-4 | 2017168-04 | Hexachlorobutadiene | 6/17/2020 | 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-3-4 | 2017168-04 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-3-4 | 2017168-04 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-3-4 | 2017168-04 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-3-4 | 2017168-04 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-3-4 | 2017168-04 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-3-4 | 2017168-04 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-4 | 2017168-04 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-3-4 | 2017168-04 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-3-4 | 2017168-04 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-3-4 | 2017168-04 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-3-4 | 2017168-04 | Methyl isobutyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-3-4 | 2017168-04 | t-Amyl Methyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-4 | 2017168-04 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-3-4 | 2017168-04 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-3-4 | 2017168-04 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-3-4 | 2017168-04 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-3-4 | 2017168-04 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-4 | 2017168-04 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 9.7 | Y | y | v s | | | | ug/L |
| MW-3-4 | 2017168-04 | Toluene-d8 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-4 | 2017168-04 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-4 | 2017168-04 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-3-4 | 2017168-04 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-4 | 2017168-04 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | Benzene | 6/17/2020 | 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-3-4 | 2017168-04 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-4 | 2017168-04 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-4 | 2017168-04 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-3-4 | 2017168-04 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-4 | 2017168-04 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-3-4 | 2017168-04 | Trichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-4 | 2017168-04 | 1,1,2,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-3-4 | 2017168-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-4 | 2017168-04 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-4 | 2017168-04 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-4 | 2017168-04 | Vinyl chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-4 | 2017168-04 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-3-4 | 2017168-04 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-3-4 | 2017168-04 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-3-4 | 2017168-04 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-5 | 2017168-03 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-3-5 | 2017168-03 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-3-5 | 2017168-03 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| MW-3-5 | 2017168-03 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-3-5 | 2017168-03 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-3-5 | 2017168-03 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-3-5 | 2017168-03 | t-Amyl Methyl ether | 6/17/2020 | 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-3-5 | 2017168-03 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-5 | 2017168-03 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-3-5 | 2017168-03 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-3-5 | 2017168-03 | Vinyl chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-5 | 2017168-03 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-5 | 2017168-03 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-3-5 | 2017168-03 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | Trichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-5 | 2017168-03 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-3-5 | 2017168-03 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-3-5 | 2017168-03 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-5 | 2017168-03 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-5 | 2017168-03 | 1,1-Dichloropropanone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-5 | 2017168-03 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-5 | 2017168-03 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-5 | 2017168-03 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-5 | 2017168-03 | Toluene-d8 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| MW-3-5 | 2017168-03 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-3-5 | 2017168-03 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-5 | 2017168-03 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-5 | 2017168-03 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-3-5 | 2017168-03 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| MW-3-5 | 2017168-03 | Methyl isobutyl ketone | 6/17/2020 | 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-3-5 | 2017168-03 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-3-5 | 2017168-03 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-3-5 | 2017168-03 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-3-5 | 2017168-03 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 9.6 | Y | y | v s | | | | ug/L |
| MW-3-5 | 2017168-03 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-5 | 2017168-03 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-5 | 2017168-03 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-5 | 2017168-03 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-5 | 2017168-03 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-5 | 2017168-03 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-5 | 2017168-03 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-5 | 2017168-03 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-5 | 2017168-03 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-3-5 | 2017168-03 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-3-5 | 2017168-03 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-3-5 | 2017168-03 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-5 | 2017168-03 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | 1,3-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-3-5 | 2017168-03 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-5 | 2017168-03 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-3-5 | 2017168-03 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-3-5 | 2017168-03 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-3-5 | 2017168-03 | 1,1,2,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-5 | 2017168-03 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-5 | 2017168-03 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-5 | 2017168-03 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| MW-3-5 | 2017168-03 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-5 | 2017168-03 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-3-5 | 2017168-03 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | Hexachlorobutadiene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-5 | 2017168-03 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-5 | 2017168-03 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | n-Propylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-3-5 | 2017168-03 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-3-5 | 2017168-03 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-3-5 | 2017168-03 | Benzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-3-5 | 2017168-03 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-3-5 | 2017168-03 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| MW-3-5 | 2017168-03 | Bromomethane | 6/17/2020 | 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-3-5 | 2017168-03 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-3-5 | 2017168-03 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-3-5 | 2017168-03 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-3-5 | 2017168-03 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-3-5 | 2017168-03 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-3-5 | 2017168-03 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | Methyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-4-061220 | 2017168-01 | trans-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | 1,3-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-4-061220 | 2017168-01 | 2,2-Dichloropropane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-4-061220 | 2017168-01 | cis-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | trans-1,3-Dichloropropene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-4-061220 | 2017168-01 | Ethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | Hexachlorobutadiene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-4-061220 | 2017168-01 | Isopropylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | Methylene chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-4-061220 | 2017168-01 | p-Isopropyltoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | Chloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-4-061220 | 2017168-01 | Bromobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | Bromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-4-061220 | 2017168-01 | Bromodichloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |

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| Analytical Method | EPA-524.2 | | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| TB-4-061220 | 2017168-01 | Bromoform | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.46 | ug/L |
| TB-4-061220 | 2017168-01 | Bromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-4-061220 | 2017168-01 | n-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | sec-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-4-061220 | 2017168-01 | tert-Butylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-4-061220 | 2017168-01 | Carbon tetrachloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-4-061220 | 2017168-01 | Chlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | Benzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-4-061220 | 2017168-01 | cis-1,2-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-4-061220 | 2017168-01 | Chloroform | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | t-Amyl Methyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-4-061220 | 2017168-01 | 2-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | 4-Chlorotoluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-4-061220 | 2017168-01 | Dibromochloromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2-Dibromoethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-4-061220 | 2017168-01 | Dibromomethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-4-061220 | 2017168-01 | 1,3-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-4-061220 | 2017168-01 | 1,4-Dichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | Dichlorodifluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1-Dichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-4-061220 | 2017168-01 | Chloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-4-061220 | 2017168-01 | Methyl ethyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1-Dichloropropanone | 6/17/2020 | 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 |
| TB-4-061220 | 2017168-01 | 1-Chlorobutane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| TB-4-061220 | 2017168-01 | Chloroacetonitrile | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| TB-4-061220 | 2017168-01 | 4-Bromofluorobenzene (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| TB-4-061220 | 2017168-01 | Toluene-d8 (Surrogate) | 6/17/2020 | 9.9 | Y | y | v s | | | | ug/L |
| TB-4-061220 | 2017168-01 | 1,2-Dichloroethane-d4 (Surrogate) | 6/17/2020 | 10 | Y | y | v s | | | | ug/L |
| TB-4-061220 | 2017168-01 | o-Xylene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-4-061220 | 2017168-01 | p- & m-Xylenes | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-4-061220 | 2017168-01 | Tetrahydrofuran | 6/17/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-4-061220 | 2017168-01 | Propionitrile | 6/17/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-4-061220 | 2017168-01 | Methyl acrylate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| TB-4-061220 | 2017168-01 | Methyl iodide | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-4-061220 | 2017168-01 | Pentachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.63 | ug/L |
| TB-4-061220 | 2017168-01 | Methacrylonitrile | 6/17/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-4-061220 | 2017168-01 | 2-Hexanone | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-4-061220 | 2017168-01 | Hexachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-4-061220 | 2017168-01 | Ethyl t-butyl ether | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-4-061220 | 2017168-01 | Ethyl methacrylate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-4-061220 | 2017168-01 | Diethyl ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.33 | ug/L |
| TB-4-061220 | 2017168-01 | trans-1,4-Dichloro-2-butene | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| TB-4-061220 | 2017168-01 | Carbon disulfide | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-4-061220 | 2017168-01 | Naphthalene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.16 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1-Dichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | Methyl methacrylate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2,4-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.15 | ug/L |
| TB-4-061220 | 2017168-01 | n-Propylbenzene | 6/17/2020 | 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 |
| TB-4-061220 | 2017168-01 | Methyl isobutyl ketone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-4-061220 | 2017168-01 | Nitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| TB-4-061220 | 2017168-01 | 1,1,1,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1,2,2-Tetrachloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-4-061220 | 2017168-01 | Tetrachloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-4-061220 | 2017168-01 | Toluene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-4-061220 | 2017168-01 | t-Butyl alcohol | 6/17/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-4-061220 | 2017168-01 | Styrene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1,1-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1,2-Trichloroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-4-061220 | 2017168-01 | Acetone | 6/17/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-4-061220 | 2017168-01 | 2-Nitropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| TB-4-061220 | 2017168-01 | Allyl chloride | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2,3-Trichlorobenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-4-061220 | 2017168-01 | Acrylonitrile | 6/17/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-4-061220 | 2017168-01 | Trichloroethene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-4-061220 | 2017168-01 | Vinyl chloride | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-4-061220 | 2017168-01 | 1,3,5-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2,3-Trichloropropane | 6/17/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-4-061220 | 2017168-01 | Trichlorofluoromethane | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-4-061220 | 2017168-01 | 1,2,4-Trimethylbenzene | 6/17/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-8270C | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

SDG: 2017168

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | 4,4'-DDT | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-3-2 | 2017168-02 | Dimethyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Diethyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Dieldrin | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.39 | ug/L |
| MW-3-2 | 2017168-02 | 3,3-Dichlorobenzidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.53 | ug/L |
| MW-3-2 | 2017168-02 | 1,4-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.27 | ug/L |
| MW-3-2 | 2017168-02 | Dibenzofuran | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4,4'-DDE | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.24 | ug/L |
| MW-3-2 | 2017168-02 | Dibenzo[a,h]anthracene | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.34 | ug/L |
| MW-3-2 | 2017168-02 | Di-n-butyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 1,3-Dichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2,4-Dinitrotoluene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-3-2 | 2017168-02 | 2,6-Dinitrotoluene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Di-n-octyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Diphenylhydrazine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Isophorone | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2-Methylnaphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Naphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Heptachlor | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2-Nitroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4-Nitroaniline | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.38 | ug/L |
| MW-3-2 | 2017168-02 | Nitrobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4,4'-DDD | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-3-2 | 2017168-02 | Acenaphthylene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

SDG: 2017168

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | 3-Nitroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-3-2 | 2017168-02 | Benzyl butyl phthalate | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosodi-N-propylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosodiphenylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Acenaphthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Aldrin | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-3-2 | 2017168-02 | Anthracene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Benzidine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 1.6 | ug/L |
| MW-3-2 | 2017168-02 | Benzo[a]anthracene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | Benzo[b]fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.24 | ug/L |
| MW-3-2 | 2017168-02 | Benzo[k]fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-3-2 | 2017168-02 | Benzo[a]pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Benzo[g,h,i]perylene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-3-2 | 2017168-02 | Aniline | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.28 | ug/L |
| MW-3-2 | 2017168-02 | Benzyl alcohol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Chrysene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | alpha-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | beta-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | delta-BHC | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | gamma-BHC (Lindane) | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | bis(2-Chloroethoxy)methane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | bis(2-Chloroethyl) ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-3-2 | 2017168-02 | 2-Naphthylamine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 1.3 | ug/L |
| MW-3-2 | 2017168-02 | bis(2-Ethylhexyl)phthalate | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4-Bromophenyl phenyl ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

SDG: 2017168

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | 4-Chloroaniline | 6/17/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-3-2 | 2017168-02 | 2-Chloronaphthalene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4-Chlorophenyl phenyl ether | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Benzoic acid | 6/17/2020 | 10 | Y | n | u | | 10 | 0.52 | ug/L |
| MW-3-2 | 2017168-02 | Endosulfan II | 6/17/2020 | 10 | Y | n | u | | 10 | 0.30 | ug/L |
| MW-3-2 | 2017168-02 | Indeno[1,2,3-cd]pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.29 | ug/L |
| MW-3-2 | 2017168-02 | Demeton-S | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 2,4-Diaminotoluene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dibenz[a,j]acridine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dibenzo[a,e]pyrene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dibromo-3-chloropropane | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dichlone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dichlorvos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dicrotophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Diethylstilbestrol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Diethyl sulfate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 2-Cyclohexyl-4,6-dinitrophenol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Endosulfan I | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.31 | ug/L |
| MW-3-2 | 2017168-02 | Crotoxyphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Endosulfan sulfate | 6/17/2020 | 3 | Y | n | u | | 3.0 | 0.23 | ug/L |
| MW-3-2 | 2017168-02 | Endrin | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.38 | ug/L |
| MW-3-2 | 2017168-02 | Endrin aldehyde | 6/17/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-3-2 | 2017168-02 | Fluoranthene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.28 | ug/L |
| MW-3-2 | 2017168-02 | Fluorene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | bis(2-Chloroisopropyl)ether | 6/17/2020 | 2 | Y | n | u | UJ | 2.0 | 0.20 | ug/L |

SDG: 2017168

| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Heptachlor epoxide | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-3-2 | 2017168-02 | Hexachlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.25 | ug/L |
| MW-3-2 | 2017168-02 | Hexachlorobutadiene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Hexachlorocyclopentadiene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-3-2 | 2017168-02 | 2-Fluorophenol (Surrogate) | 6/17/2020 | 28 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | Dihydrosafrole | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Captafol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Phenol-d5 (Surrogate) | 6/17/2020 | 18 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | Nitrobenzene-d5 (Surrogate) | 6/17/2020 | 38 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | 2-Fluorobiphenyl (Surrogate) | 6/17/2020 | 32 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | 2,4,6-Tribromophenol (Surrogate) | 6/17/2020 | 42 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | p-Terphenyl-d14 (Surrogate) | 6/17/2020 | 14 | Y | y | v s | | | | ug/L |
| MW-3-2 | 2017168-02 | 1-Acetyl-2-thiourea | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 3-Amino-9-ethylcarbazole | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosodimethylamine | 6/17/2020 | 2 | Y | n | u | | 2.0 | 1.2 | ug/L |
| MW-3-2 | 2017168-02 | o-Anisidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Azinphos methyl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Barban | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Demeton-O | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Bromoxynil | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 3,3'-Dimethoxybenzidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Captan | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Carbaryl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Carbofuran | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Carbophenothion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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|-------------------|---------------|---|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Chlorfenvinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 5-Chloro-2-methylaniline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 3-(Chloromethyl) pyridine hydrochloride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 4-Chloro-1,2-phenylenediamine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 4-Chloro-1,3-phenylenediamine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Coumaphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | p-Cresidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | p-Benzoquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Strychnine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Hexachloroethane | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4-Nitrobiphenyl | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Nitrophen | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Octamethylpyrophosphoramidate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 4,4'-Oxydianiline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Phenobarbital | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Phosalone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Phosmet | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Phosphamidon | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Phthalic anhydride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Piperonyl sulfoxide | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 5-Nitroacenaphthene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Resorcinol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Nicotine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Sulfallate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Terbufos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------------|-----------|--------|--------|--------|----------|----------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Tetrachlorvinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | TEPP | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Thiophenol (Benzenethiol) | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Toluene 2,4-diisocyanate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Trifluralin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 2,4,5-Trimethylaniline | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Trimethyl phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Tris(2,3-dibromopropyl) phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Tri-p-tolyl phosphate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Propylthiouracil | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Hydroquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 1,2-Dinitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 1,4-Dinitrobenzene | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dinocap | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Dioxathion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 5,5-Diphenylhydantoin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Endrin ketone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | EPN | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Ethion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Ethyl carbamate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Fensulfothion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Fenthion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 5-Nitro-o-anisidine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Hexamethylphosphoramide | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 2-Aminoanthraquinone | 6/17/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Leptophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Malathion | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Maleic Anhydride | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Mestranol | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 4,4'-Methylenebis(2-chloroaniline) | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | 4,4'-Methylenebis[N,N-dimethylaniline] | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Mevinphos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Mexacarbate | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Mirex | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Monocrotophos | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Naled | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Fluchloralin | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Ethyl methacrylate | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 1.2 | ug/L |
| MW-3-2 | 2017168-02 | Tris(hydroxymethyl)nitromethane | 6/17/2020 | 50 | Y | n | u | | 50 | 5.0 | ug/L |
| MW-3-2 | 2017168-02 | cis-Diallate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 2.4 | ug/L |
| MW-3-2 | 2017168-02 | trans-Diallate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.56 | ug/L |
| MW-3-2 | 2017168-02 | Diallate | 6/17/2020 | 10 | Y | n | u | | 10 | 3.0 | ug/L |
| MW-3-2 | 2017168-02 | 2,6-Dichlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.28 | ug/L |
| MW-3-2 | 2017168-02 | Dimethoate | 6/17/2020 | 20 | Y | n | u | | 20 | 0.99 | ug/L |
| MW-3-2 | 2017168-02 | p-(Dimethylamino)azobenzene | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.27 | ug/L |
| MW-3-2 | 2017168-02 | 7,12-Dimethylbenz[a]anthracene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-3-2 | 2017168-02 | 3,3'-Dimethylbenzidine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.42 | ug/L |
| MW-3-2 | 2017168-02 | a,a-Dimethylphenethylamine | 6/17/2020 | 20 | Y | n | u | | 20 | 4.9 | ug/L |
| MW-3-2 | 2017168-02 | Dimethyl sulfoxide (DMSO) | 6/17/2020 | 10 | Y | n | u | | 10 | 9.5 | ug/L |
| MW-3-2 | 2017168-02 | 1,3-Dinitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.93 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Dinoseb | 6/17/2020 | 10 | Y | n | u | | 10 | 0.91 | ug/L |
| MW-3-2 | 2017168-02 | Chlorobenzilate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-3-2 | 2017168-02 | Isodrin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.43 | ug/L |
| MW-3-2 | 2017168-02 | 3-Methylcholanthrene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.31 | ug/L |
| MW-3-2 | 2017168-02 | Anilazine | 6/17/2020 | 0 | Y | y | v | | | | ug/L |
| MW-3-2 | 2017168-02 | Methapyrilene | 6/17/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-3-2 | 2017168-02 | Kepone | 6/17/2020 | 20 | Y | n | u | | 20 | 2.2 | ug/L |
| MW-3-2 | 2017168-02 | Isosafrole | 6/17/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-3-2 | 2017168-02 | Diphenylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-3-2 | 2017168-02 | cis-Isosafrole | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.44 | ug/L |
| MW-3-2 | 2017168-02 | Disulfoton | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.33 | ug/L |
| MW-3-2 | 2017168-02 | Hexachloropropene | 6/17/2020 | 20 | Y | n | u | | 20 | 0.23 | ug/L |
| MW-3-2 | 2017168-02 | Hexachlorophene | 6/17/2020 | 200 | Y | n | u | UJ | 200 | 20 | ug/L |
| MW-3-2 | 2017168-02 | Famphur | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 4.1 | ug/L |
| MW-3-2 | 2017168-02 | Ethyl Parathion | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.53 | ug/L |
| MW-3-2 | 2017168-02 | Ethyl methanesulfonate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-3-2 | 2017168-02 | trans-Chlordane | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.55 | ug/L |
| MW-3-2 | 2017168-02 | trans-Isosafrole | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.29 | ug/L |
| MW-3-2 | 2017168-02 | Phenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-3-2 | 2017168-02 | Phenanthrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Pyrene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-3-2 | 2017168-02 | 1,2,4-Trichlorobenzene | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4-Chloro-3-methylphenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2-Chlorophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2,4-Dichlorophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |

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| Analytical Method | EPA-8270C | | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | 2,4-Dimethylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 4,6-Dinitro-2-methylphenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.24 | ug/L |
| MW-3-2 | 2017168-02 | 2,4-Dinitrophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2-Methylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 3- & 4-Methylphenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-3-2 | 2017168-02 | Total Methylphenol | 6/17/2020 | 4 | Y | n | u | | 4.0 | 0.60 | ug/L |
| MW-3-2 | 2017168-02 | 2-Nitrophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 1-Chloronaphthalene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-3-2 | 2017168-02 | 4-Aminobiphenyl | 6/17/2020 | 20 | Y | n | u | | 20 | 0.35 | ug/L |
| MW-3-2 | 2017168-02 | cis-Chlordane | 6/17/2020 | 5 | Y | n | u | UJ | 5.0 | 0.59 | ug/L |
| MW-3-2 | 2017168-02 | Carbazole | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Caprolactam | 6/17/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-3-2 | 2017168-02 | 1,1-Biphenyl | 6/17/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-3-2 | 2017168-02 | Benefin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.88 | ug/L |
| MW-3-2 | 2017168-02 | 4-Nitrophenol | 6/17/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-3-2 | 2017168-02 | Aramite | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.35 | ug/L |
| MW-3-2 | 2017168-02 | Pentachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-3-2 | 2017168-02 | Acrolein, dimethyl acetal | 6/17/2020 | 40 | Y | n | u | | 40 | 6.1 | ug/L |
| MW-3-2 | 2017168-02 | 2-Acetylaminofluorene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.78 | ug/L |
| MW-3-2 | 2017168-02 | Acetophenone | 6/17/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-3-2 | 2017168-02 | 2,4,6-Trichlorophenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 2,4,5-Trichlorophenol | 6/17/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Methyl methacrylate | 6/17/2020 | 40 | Y | n | u | | 40 | 3.8 | ug/L |
| MW-3-2 | 2017168-02 | Benzaldehyde | 6/17/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-3-2 | 2017168-02 | Toxaphene | 6/17/2020 | 100 | Y | n | u | | 100 | 50 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | Pronamide | 6/17/2020 | 10 | Y | n | u | | 10 | 0.22 | ug/L |
| MW-3-2 | 2017168-02 | Sulfotep | 6/17/2020 | 10 | Y | n | u | | 10 | 0.23 | ug/L |
| MW-3-2 | 2017168-02 | Safrole | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-3-2 | 2017168-02 | Pyridine | 6/17/2020 | 10 | Y | n | u | | 10 | 1.6 | ug/L |
| MW-3-2 | 2017168-02 | 2,3,4,5-Tetrachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-3-2 | 2017168-02 | Prowl | 6/17/2020 | 10 | Y | n | u | | 10 | 0.83 | ug/L |
| MW-3-2 | 2017168-02 | Methyl methanesulfonate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-3-2 | 2017168-02 | Propyleneglycol monomethyl ether acetate | 6/17/2020 | 10 | Y | n | u | | 10 | 3.7 | ug/L |
| MW-3-2 | 2017168-02 | Methoxychlor | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | 1,2,4,5-Tetrachlorobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | o,o,o-Triethylphosphorothioate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1242 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | 2-Toluidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.41 | ug/L |
| MW-3-2 | 2017168-02 | Thionazin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.38 | ug/L |
| MW-3-2 | 2017168-02 | 2,3,4,6-Tetrachlorophenol | 6/17/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1260 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1221 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1232 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1254 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1248 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | Total PCB's (Summation) | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | Prometryn | 6/17/2020 | 10 | Y | n | u | | 10 | 1.7 | ug/L |
| MW-3-2 | 2017168-02 | 1,3,5-Trinitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 1.4 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosopiperidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.47 | ug/L |

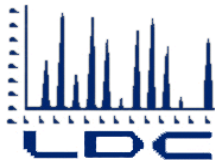
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| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-8270C | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-3-2 | 2017168-02 | 1-Methylnaphthalene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-3-2 | 2017168-02 | Methyl parathion | 6/17/2020 | 10 | Y | n | u | UJ | 10 | 0.71 | ug/L |
| MW-3-2 | 2017168-02 | N-Methyl-2-pyrrolidinone | 6/17/2020 | 10 | Y | n | u | | 10 | 2.5 | ug/L |
| MW-3-2 | 2017168-02 | 1,4-Naphthoquinone | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.87 | ug/L |
| MW-3-2 | 2017168-02 | 1-Naphthylamine | 6/17/2020 | 20 | Y | n | u | UJ | 20 | 0.30 | ug/L |
| MW-3-2 | 2017168-02 | 5-Nitro-o-toluidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.85 | ug/L |
| MW-3-2 | 2017168-02 | 4-Nitroquinoline 1-oxide | 6/17/2020 | 20 | Y | n | u | | 20 | 0.95 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosodibutylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosodiethylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.55 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1016 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosomorpholine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.63 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosopyrrolidine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.39 | ug/L |
| MW-3-2 | 2017168-02 | Pentachlorobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-3-2 | 2017168-02 | Pentachloroethane | 6/17/2020 | 20 | Y | n | u | | 20 | 0.31 | ug/L |
| MW-3-2 | 2017168-02 | Pentachloronitrobenzene | 6/17/2020 | 10 | Y | n | u | | 10 | 0.42 | ug/L |
| MW-3-2 | 2017168-02 | Phenacetin | 6/17/2020 | 10 | Y | n | u | | 10 | 0.75 | ug/L |
| MW-3-2 | 2017168-02 | 1,4-Phenylenediamine | 6/17/2020 | 20 | Y | n | u | | 20 | 1.1 | ug/L |
| MW-3-2 | 2017168-02 | Phorate | 6/17/2020 | 10 | Y | n | u | | 10 | 0.35 | ug/L |
| MW-3-2 | 2017168-02 | 2-Picoline | 6/17/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1268 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | PCB-1262 | 6/17/2020 | 50 | Y | n | u | UJ | 50 | 25 | ug/L |
| MW-3-2 | 2017168-02 | N-Nitrosomethylethylamine | 6/17/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| SM-2320B | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

SDG: 2017168

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| SM-2320B | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-4-061220 | 2017168-07 | Carbonate | 6/17/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| EB-4-061220 | 2017168-07 | Bicarbonate | 6/17/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| EB-4-061220 | 2017168-07 | Total Alkalinity as CaCO3 | 6/17/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| MW-3-1 | 2017168-06 | Carbonate | 6/17/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-3-1 | 2017168-06 | Bicarbonate | 6/17/2020 | 220 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-3-1 | 2017168-06 | Total Alkalinity as CaCO3 | 6/17/2020 | 180 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-3-2 | 2017168-02 | Total Alkalinity as CaCO3 | 6/17/2020 | 210 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-3-2 | 2017168-02 | Carbonate | 6/17/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-3-2 | 2017168-02 | Bicarbonate | 6/17/2020 | 250 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-3-3 | 2017168-05 | Total Alkalinity as CaCO3 | 6/17/2020 | 190 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-3-3 | 2017168-05 | Bicarbonate | 6/17/2020 | 230 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-3-3 | 2017168-05 | Carbonate | 6/17/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-3-4 | 2017168-04 | Bicarbonate | 6/17/2020 | 240 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-3-4 | 2017168-04 | Carbonate | 6/17/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-3-4 | 2017168-04 | Total Alkalinity as CaCO3 | 6/17/2020 | 190 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-3-5 | 2017168-03 | Bicarbonate | 6/17/2020 | 230 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-3-5 | 2017168-03 | Carbonate | 6/17/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-3-5 | 2017168-03 | Total Alkalinity as CaCO3 | 6/17/2020 | 190 | Y | y | v | | 4.1 | 4.1 | mg/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

August 12, 2020

SUBJECT: NASA JPL, 2Q2020, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on July 21, 2020. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #48681:

| <u>SDG #</u> | <u>Fraction</u> |
|---------------------|--|
| 2017309, 2017454 | Volatiles, Semivolatiles, 1,4-Dioxane, Metals, Wet |
| 2017715, 2017828 | Chemistry |

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

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

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

Sincerely,

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017309

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-5-061520 | 2017309-01 | Water | 06/15/20 |
| MW-17-5 | 2017309-02 | Water | 06/15/20 |
| MW-17-4 | 2017309-03 | Water | 06/15/20 |
| MW-17-3 | 2017309-04 | Water | 06/15/20 |
| MW-17-2 | 2017309-05 | Water | 06/15/20 |
| MW-17-1 | 2017309-06 | Water | 06/15/20 |
| EB-5-061520 | 2017309-07 | Water | 06/15/20 |
| Dup-2-2Q2020 | 2017309-08 | Water | 06/15/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/10/20 | Diethyl ether | 74.0 | All samples in SDG 2017309 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|--|----------------------|----------------------------|--|--------|
| 06/17/20 (17JUN03) | Bromoform Naphthalene 1,2,4-Trichlorobenzene | 38.0 41.2 31.4 | All samples in SDG 2017309 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|--|-------------|-------------------------------|--|--------|
| 06/17/20 (17JUN04) | trans-1,4-Dichloro-2-butene Methyl iodide | 106 60.0 | All samples in SDG 2017309 | 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-5-061520 was identified as a trip blank. No contaminants were found.

Sample EB-5-061520 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

Samples MW-17-2 and Dup-2-2Q2020 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

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

Due to ICV %D and 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, 2Q2020
Volatiles - Data Qualification Summary - SDG 2017309

| Sample | Compound | Flag | A or P | Reason |
|---|--|--|--------|---------------------------------------|
| TB-5-061520 MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 EB-5-061520 Dup-2-2Q2020 | Diethyl ether | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-5-061520 MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 EB-5-061520 Dup-2-2Q2020 | Bromoform Naphthalene 1,2,4-Trichlorobenzene trans-1,4-Dichloro-2-butene Methyl iodide | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017309

No Sample Data Qualified in this SDG

LDC #: 48681A1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017309

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/1/20

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, W | RSB ≤ 20%. Y ² CV ≤ 30% |
| IV. | Continuing calibration | W | CCV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | NO | TB=1. EB=7. |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | NO | D=5+8 |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|------------|--------|----------|
| 1 | TB-5-061520 | 2017309-01 | Water | 06/15/20 |
| 2 | MW-17-5 | 2017309-02 | Water | 06/15/20 |
| 3 | MW-17-4 | 2017309-03 | Water | 06/15/20 |
| 4 | MW-17-3 | 2017309-04 | Water | 06/15/20 |
| 5 | MW-17-2 | 2017309-05 | Water | 06/15/20 |
| 6 | MW-17-1 | 2017309-06 | Water | 06/15/20 |
| 7 | EB-5-061520 | 2017309-07 | Water | 06/15/20 |
| 8 | Dup-2-2Q2020 | 2017309-08 | Water | 06/15/20 |
| 9 | | | | |
| 10 | | | | |

Notes:

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Semivolatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017309

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-17-3 | 2017309-04 | Water | 06/15/20 |

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:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) SW 846 Method 8270C

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|----------|-----------------|----------|----------------------------|----------------------|--------|
| 06/26/20 | 2-Naphthylamine | 67.48481 | All samples in SDG 2017309 | UJ (all non-detects) | A |

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 20.0% for all compounds with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|------------------------|------------------------------|--------------|----------------------------|--|--------|
| 06/26/20 (25JUN022) | Benzidine 2-Naphthylamine | 23.1 69.4 | All samples in SDG 2017309 | UJ (all non-detects) UJ (all non-detects) | A |
| 06/26/20 (25JUN024) | Hexachlorophene | 38.7 | All samples in SDG 2017309 | UJ (all non-detects) | A |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

Due to initial calibration %RSD and ICV %D, 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, 2Q2020
Semivolatiles - Data Qualification Summary - SDG 2017309**

| Sample | Compound | Flag | A or P | Reason |
|---------|---|--|--------|---------------------------------------|
| MW-17-3 | 2-Naphthylamine | UJ (all non-detects) | A | Initial calibration (%RSD) |
| MW-17-3 | Benzidine 2-Naphthylamine Hexachlorophene | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A | Initial calibration verification (%D) |

**NASA JPL, 2Q2020
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 2017309**

No Sample Data Qualified in this SDG

LDC #: 48681A2a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017309

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/1/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW846 Method 8270C)

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

| | Validation Area | | Comments |
|-------|--|------|---|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | AN/M | RSD < 30/15%. Y ² (CV < 20%) |
| IV. | Continuing calibration | A | CCV < 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | EB |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-17-3 | 2017309-04 | Water | 06/15/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
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| 9 | | | | |

Notes:

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VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

| | | | | |
|---------------------------------|---------------------------------|----------------------------------|---|--|
| A. Phenol | CC. Dimethylphthalate | EEE. Bis(2-ethylhexyl)phthalate | GGGG. C30-Hopane | I1. Methyl methanesulfonate |
| B. Bis (2-chloroethyl) ether | DD. Acenaphthylene | FFF. Di-n-octylphthalate | HHHH. 1-Methylphenanthrene | J1. Ethyl methanesulfonate |
| C. 2-Chlorophenol | EE. 2,6-Dinitrotoluene | GGG. Benzo(b)fluoranthene | IIII. 1,4-Dioxane | K1. o,o',o''-Triethylphosphorothioate |
| D. 1,3-Dichlorobenzene | FF. 3-Nitroaniline | HHH. Benzo(k)fluoranthene | JJJJ. Acetophenone | L1. n-Phenylene diamine |
| E. 1,4-Dichlorobenzene | GG. Acenaphthene | III. Benzo(a)pyrene | KKKK. Atrazine | M1. 1,4-Naphthoquinone |
| F. 1,2-Dichlorobenzene | HH. 2,4-Dinitrophenol | JJJ. Indeno(1,2,3-cd)pyrene | LLLL. Benzaldehyde | N1. N-Nitro-o-toluidine |
| G. 2-Methylphenol | II. 4-Nitrophenol | KKK. Dibenz(a,h)anthracene | MMMM. Caprolactam | O1. 1,3,5-Trinitrobenzene |
| H. 2,2'-Oxybis(1-chloropropane) | JJ. Dibenzofuran | LLL. Benzo(g,h,i)perylene | NNNN. 2,6-Dichlorophenol | P1. Pentachlorobenzene |
| I. 4-Methylphenol | KK. 2,4-Dinitrotoluene | MMM. Bis(2-Chloroisopropyl)ether | OOOO. 1,2-Diphenylhydrazine | Q1. 4-Aminobiphenyl |
| J. N-Nitroso-di-n-propylamine | LL. Diethylphthalate | NNN. Aniline | PPPP. 3-Methylphenol | R1. 2-Naphthylamine |
| K. Hexachloroethane | MM. 4-Chlorophenyl-phenyl ether | OOO. N-Nitrosodimethylamine | QQQQ. 3&4-Methylphenol | S1. Triphenylene |
| L. Nitrobenzene | NN. Fluorene | PPP. Benzoic Acid | RRRR. 4-Dimethyldibenzothiophene (4MDT) | T1. Octachlorostyrene |
| M. Isophorone | OO. 4-Nitroaniline | QQQ. Benzyl alcohol | SSSS. 2/3-Dimethyldibenzothiophene (4MDT) | U1. Famphur |
| N. 2-Nitrophenol | PP. 4,6-Dinitro-2-methylphenol | RRR. Pyridine | TTTT. 1-Methyldibenzothiophene (1MDT) | V1. 1,4-phenylenediamine |
| O. 2,4-Dimethylphenol | QQ. N-Nitrosodiphenylamine | SSS. Benzidine | UUUU.. 2,3,4,6-Tetrachlorophenol | W1. Methapyrilene |
| P. Bis(2-chloroethoxy)methane | RR. 4-Bromophenyl-phenylether | TTT. 1-Methylnaphthalene | VVVV. 1,2,4,5-Tetrachlorobenzene | X1. Pentachloroethane |
| Q. 2,4-Dichlorophenol | SS. Hexachlorobenzene | UUU. Benzo(b)thiophene | WWWW.. 2-Picoline | Y1. 3,3'-Dimethylbenzidine |
| R. 1,2,4-Trichlorobenzene | TT. Pentachlorophenol | VVV. Benzonaphthothiophene | XXXX. 3-Methylcholanthrene | Z1. o-Toluidine |
| S. Naphthalene | UU. Phenanthrene | WWW. Benzo(e)pyrene | YYYY. a,a-Dimethylphenethylamine | A2. 1-Naphthylamine |
| T. 4-Chloroaniline | VV. Anthracene | XXX. 2,6-Dimethylnaphthalene | ZZZZ. Hexachloropropene | B2. 4-Aminobiphenyl |
| U. Hexachlorobutadiene | WW. Carbazole | YYY. 2,3,5-Trimethylnaphthalene | A1. N-Nitrosodiethylamine | C2. 4-Nitroquinoline-1-oxide |
| V. 4-Chloro-3-methylphenol | XX. Di-n-butylphthalate | ZZZ. Perylene | B1. N-Nitrosodi-n-butylamine | D2. Hexachloropene |
| W. 2-Methylnaphthalene | YY. Fluoranthene | AAAA. Dibenzothiophene | C1. N-Nitrosomethylethylamine | E2. Bis (2-chloro-1-methylethyl) ether |
| X. Hexachlorocyclopentadiene | ZZ. Pyrene | BBBB. Benzo(a)fluoranthene | D1. N-Nitrosomorpholine | F2. Bifenthrin |
| Y. 2,4,6-Trichlorophenol | AAA. Butylbenzylphthalate | CCCC. Benzo(b)fluorene | E1. N-Nitrosopyrrolidine | G2. Cyfluthrin |
| Z. 2,4,5-Trichlorophenol | BBB. 3,3'-Dichlorobenzidine | DDDD. cis/trans-Decalin | F1. Phenacetin | H2. Cypermethrin |
| AA. 2-Chloronaphthalene | CCC. Benzo(a)anthracene | EEEE. 1,1'-Biphenyl | G1. 2-Acetylaminofluorene | I2. Permethrin (cis/trans) |
| BB. 2-Nitroaniline | DDD. Chrysene | FFFF. Retene | H1. Pronamide | J2. 5-Nitro-o-toluidine |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: 1,4-Dioxane

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017309

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-17-4 | 2017309-03 | Water | 06/15/20 |

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

Where average calibration factors were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0%.

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

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

NASA JPL, 2Q2020
1,4-Dioxane - Data Qualification Summary - SDG 2017309

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 2017309

No Sample Data Qualified in this SDG

LDC #: 48681A2c

VALIDATION COMPLETENESS WORKSHEET

Date: 8/7/20

SDG #: 2017309

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

| | Validation Area | | Comments |
|-------|--|-----|----------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A/A | RSR ≤ 15%, r^2 ICV ≤ 20% |
| IV. | Continuing calibration | A | CCV ≤ 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-17-4 | 2017309-03 | Water | 06/15/20 |
| 2 | | | | |
| 3 | | | | |
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Notes:

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017309

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-17-5 | 2017309-02 | Water | 06/15/20 |
| MW-17-4 | 2017309-03 | Water | 06/15/20 |
| MW-17-3 | 2017309-04 | Water | 06/15/20 |
| MW-17-2 | 2017309-05 | Water | 06/15/20 |
| MW-17-1 | 2017309-06 | Water | 06/15/20 |
| EB-5-061520 | 2017309-07 | Water | 06/15/20 |
| Dup-2-2Q2020 | 2017309-08 | Water | 06/15/20 |

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|---------------------|---------------------------|---|
| ICB/CCB | Arsenic Chromium | 1.5210 ug/L 0.507 ug/L | MW-17-4 MW-17-3 MW-17-2 MW-17-1 EB-5-061520 Dup-2-2Q2020 |
| ICB/CCB | Arsenic | 0.703 ug/L | MW-17-5 |
| ICB/CCB | Potassium | 0.10966 mg/L | All samples in SDG 2017309 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|---------------------|------------------------|------------------------------|
| MW-17-4 | Arsenic Chromium | 1.5 ug/L 1.8 ug/L | 1.5U ug/L 1.8U ug/L |
| MW-17-2 | Arsenic | 1.3 ug/L | 1.3U ug/L |
| MW-17-1 | Arsenic Chromium | 0.73 ug/L 0.55 ug/L | 0.73U ug/L 0.55U ug/L |
| EB-5-061520 | Chromium | 0.52 ug/L | 0.52U ug/L |
| MW-17-5 | Arsenic | 0.92 ug/L | 0.92U ug/L |

VI. Field Blanks

Sample EB-5-061520 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|-------------------------------|--------------------------------------|
| EB-5-061520 | Calcium Sodium Chromium | 0.040 mg/L 0.11 mg/L 0.52 ug/L |

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

XI. Field Duplicates

Samples MW-17-2 and Dup-2-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|----------------|
| | MW-17-2 | Dup-2-2Q2020 | |
| Iron | 510 ug/L | 480 ug/L | 6 |
| Arsenic | 1.3 ug/L | 0.70U ug/L | Not calculable |
| Calcium | 61 mg/L | 60 mg/L | 2 |
| Magnesium | 20 mg/L | 19 mg/L | 5 |
| Sodium | 20 mg/L | 19 mg/L | 5 |
| Potassium | 2.8 mg/L | 2.7 mg/L | 4 |

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017309**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017309**

| Sample | Analyte | Modified Final Concentration | A or P |
|-------------|---------------------|------------------------------|--------|
| MW-17-4 | Arsenic Chromium | 1.5U ug/L 1.8U ug/L | A |
| MW-17-2 | Arsenic | 1.3U ug/L | A |
| MW-17-1 | Arsenic Chromium | 0.73U ug/L 0.55U ug/L | A |
| EB-5-061520 | Chromium | 0.52U ug/L | A |
| MW-17-5 | Arsenic | 0.92U ug/L | A |

LDC #: 48681A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/16/2020

SDG #: 2017309

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: DPM

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|-------|--------------|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | EB=6 |
| VII. | Matrix Spike/Matrix Spike Duplicates | N | |
| VIII. | Duplicate sample analysis | N | |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | ICS |
| XI. | Field Duplicates | SW | (4,7) |
| XII. | Internal Standard (ICP-MS) | AN | NOT REVIEWED |
| 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-17-5 | 2017309-02 | Water | 06/15/20 |
| 2 | MW-17-4 | 2017309-03 | Water | 06/15/20 |
| 3 | MW-17-3 | 2017309-04 | Water | 06/15/20 |
| 4 | MW-17-2 | 2017309-05 | Water | 06/15/20 |
| 5 | MW-17-1 | 2017309-06 | Water | 06/15/20 |
| 6 | EB-5-061520 | 2017309-07 | Water | 06/15/20 |
| 7 | Dup-2-2Q2020 | 2017309-08 | Water | 06/15/20 |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes: _____

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

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

Soil preparation factor applied: _____

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 2-7

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|-----|------|------|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (ug/L) | Action Level | 2 | 4 | 5 | 6 | | | | | | | |
| As | | | 1.5210 | 7.605 | 1.5 | 1.3 | 0.73 | | | | | | | | |
| Cr | | | 0.507 | 2.535 | 1.8 | | 0.55 | 0.52 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

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

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (ug/L) | Action Level | 1 | | | | | | | | | | |
| As | | | 0.703 | 3.515 | 0.92 | | | | | | | | | | |

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

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (mg/L) | Action Level | NO QUAL | | | | | | | | | | |
| K | | | 0.10966 | 0.548 | | | | | | | | | | | |

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

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

LDC#: 48681A4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

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

| Analyte | Concentration (ug/L) | | RPD |
|------------------|----------------------|-------|-----|
| | 4 | 7 | |
| Iron | 510 | 480 | 6 |
| Arsenic | 1.3 | 0.70U | NC |
| Calcium (mg/L) | 61 | 60 | 2 |
| Magnesium (mg/L) | 20 | 19 | 5 |
| Sodium (mg/L) | 20 | 19 | 5 |
| Potassium (mg/L) | 2.8 | 2.7 | 4 |

V:\Darionna\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2020\48681A4a.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017309

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-17-5 | 2017309-02 | Water | 06/15/20 |
| MW-17-4 | 2017309-03 | Water | 06/15/20 |
| MW-17-3 | 2017309-04 | Water | 06/15/20 |
| MW-17-2 | 2017309-05 | Water | 06/15/20 |
| MW-17-1 | 2017309-06 | Water | 06/15/20 |
| EB-5-061520 | 2017309-07 | Water | 06/15/20 |
| Dup-2-2Q2020 | 2017309-08 | Water | 06/15/20 |
| MW-17-5MS | 2017309-02MS | Water | 06/15/20 |
| MW-17-5MSD | 2017309-02MSD | Water | 06/15/20 |
| MW-17-5DUP | 2017309-02DUP | Water | 06/15/20 |
| MW-17-4MS | 2017309-03MS | Water | 06/15/20 |
| MW-17-4MSD | 2017309-03MSD | Water | 06/15/20 |
| MW-17-4DUP | 2017309-03DUP | Water | 06/15/20 |
| MW-17-1MS | 2017309-06MS | Water | 06/15/20 |
| MW-17-1MSD | 2017309-06MSD | Water | 06/15/20 |
| MW-17-1DUP | 2017309-06DUP | Water | 06/15/20 |

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|--------------------|---------|--|---|-----------------|--------|
| MW-17-5 MW-17-3 | pH | 52 hours | 48 hours | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|---------------------|-----------------------|--|
| ICB/CCB | Hexavalent chromium | 0.033 ug/L | MW-17-5 MW-17-4 MW-17-3 MW-17-2 MW-17-1 EB-5-061520 Dup-2-2Q2020 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|---------|---------------------|------------------------|------------------------------|
| MW-17-1 | Hexavalent chromium | 0.000056 mg/L | 0.000056U mg/L |

V. Field Blanks

Sample EB-5-061520 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|------------------------------|------------------------|
| EB-5-061520 | pH Total dissolved solids | 4.45 units 3.3 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-17-2 and Dup-2-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|------------------------|---------------|--------------|-----|
| | MW-17-2 | Dup-2-2Q2020 | |
| pH | 8.01 units | 8.09 units | 1 |
| Total dissolved solids | 320 mg/L | 310 mg/L | 3 |
| Chloride | 9.9 mg/L | 9.8 mg/L | 1 |
| Nitrate as N | 0.057 mg/L | 0.074 mg/L | 26 |
| Sulfate | 32 mg/L | 32 mg/L | 0 |
| Nitrite as N | 0.010 mg/L | 0.011 mg/L | 10 |

| Analyte | Concentration | | RPD |
|------------------------|---------------|--------------|-----|
| | MW-17-2 | Dup-2-2Q2020 | |
| Total alkalinity | 210 mg/L | 210 mg/L | 0 |
| Bicarbonate alkalinity | 250 mg/L | 260 mg/L | 4 |

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

Due to technical holding time, data were qualified as estimated in two samples.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017309**

| Sample | Analyte | Flag | A or P | Reason |
|--------------------|---------|-----------------|--------|-------------------------|
| MW-17-5 MW-17-3 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017309**

| Sample | Analyte | Modified Final Concentration | A or P |
|---------|---------------------|------------------------------|--------|
| MW-17-1 | Hexavalent chromium | 0.000056U mg/L | A |

LDC #: 48681A6
 SDG #: 2017309
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 8/6/2020
 Page: 1 of 1
 Reviewer: DM
 2nd Reviewer: [Signature]

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|------|----------|
| I. | Sample receipt/Technical holding times | A SW | |
| II. | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV. | Laboratory Blanks | SW | |
| V. | Field blanks | SW | EB=6 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | ICS |
| IX. | Field duplicates | SW | (4,7) |
| X. | Sample result verification | N | |
| XI. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-17-5 | 2017309-02 | Water | 06/15/20 |
| 2 | MW-17-4 | 2017309-03 | Water | 06/15/20 |
| 3 | MW-17-3 | 2017309-04 | Water | 06/15/20 |
| 4 | MW-17-2 | 2017309-05 | Water | 06/15/20 |
| 5 | MW-17-1 | 2017309-06 | Water | 06/15/20 |
| 6 | EB-5-061520 | 2017309-07 | Water | 06/15/20 |
| 7 | Dup-2-2Q2020 | 2017309-08 | Water | 06/15/20 |
| 8 | MW-17-5MS | 2017309-02MS | Water | 06/15/20 |
| 9 | MW-17-5MSD | 2017309-02MSD | Water | 06/15/20 |
| 10 | MW-17-5DUP | 2017309-02DUP | Water | 06/15/20 |
| 11 | MW-17-4MS | 2017309-03MS | Water | 06/15/20 |
| 12 | MW-17-4MSD | 2017309-03MSD | Water | 06/15/20 |
| 13 | MW-17-4DUP | 2017309-03DUP | Water | 06/15/20 |
| 14 | MW-17-1MS | 2017309-06MS | Water | 06/15/20 |
| 15 | MW-17-1MSD | 2017309-06MSD | Water | 06/15/20 |
| 16 | MW-17-1DUP | 2017309-06DUP | Water | 06/15/20 |

VALIDATION FINDINGS WORKSHEET

Blanks

METHOD: Inorganics, Method See Cover

Conc. units: mg/L

Associated Samples: 1-7

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | | | | | |
|---------|----------|-------------------|--------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (ug/L) | | 5 | | | | | | | | | | | | | |
| Cr6 | | 0.033 | 0.000165 | 0.000056 | | | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET

Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/15/2020 Soil factor applied NA

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

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | | |
|--------------|----------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| | 6 | | No Qualifiers | | | | | | | | |
| pH(pH units) | 4.45 | | | | | | | | | | |
| TDS | 3.3 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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".

VALIDATION FINDINGS WORKSHEET
Field DuplicatesInorganics, Method See Cover

| Analyte | Concentration (mg/L) | | RPD |
|------------------------|----------------------|-------|-----|
| | 4 | 7 | |
| pH (pH units) | 8.01 | 8.09 | 1 |
| TDS | 320 | 310 | 3 |
| Chloride | 9.9 | 9.8 | 1 |
| Nitrate-N | 0.057 | 0.074 | 26 |
| Sulfate | 32 | 32 | 0 |
| Nitrite-N | 0.010 | 0.011 | 10 |
| Total Alkalinity | 210 | 210 | 0 |
| Bicarbonate Alkalinity | 250 | 260 | 4 |

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017454

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| TB-6-061620 | 2017454-01 | Water | 06/16/20 |
| MW-20-5 | 2017454-02 | Water | 06/16/20 |
| MW-20-4 | 2017454-03 | Water | 06/16/20 |
| MW-20-3 | 2017454-04 | Water | 06/16/20 |
| MW-20-2** | 2017454-05** | Water | 06/16/20 |
| EB-6-061620 | 2017454-06 | Water | 06/16/20 |
| MW-24-4 | 2017454-07 | Water | 06/16/20 |
| MW-24-3 | 2017454-08 | Water | 06/16/20 |
| MW-20-2MS | 2017454-05MS | Water | 06/16/20 |
| MW-20-2MSD | 2017454-05MSD | Water | 06/16/20 |

**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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/08/20 | Pentachloroethane | 76.0 | All samples in SDG 2017454 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/19/20 | Pentachloroethane | 53.6 | All samples in SDG 2017454 | 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-6-061620 was identified as a trip blank. No contaminants were found.

Sample EB-6-061620 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Compound | Concentration |
|-------------|-----------------|---------------|
| EB-6-061620 | Tetrahydrofuran | 19 ug/L |

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2017454

| Sample | Compound | Flag | A or P | Reason |
|--|-------------------|----------------------|--------|---------------------------------------|
| TB-6-061620 MW-20-5 MW-20-4 MW-20-3 MW-20-2** EB-6-061620 MW-24-4 MW-24-3 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-6-061620 MW-20-5 MW-20-4 MW-20-3 MW-20-2** EB-6-061620 MW-24-4 MW-24-3 | Pentachloroethane | UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017454

No Sample Data Qualified in this SDG

LDC #: 48681B1a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/7/20

SDG #: 2017454

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 | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A / MW | FSB ≤ 20% . γ ² A ≤ 30% |
| IV. | Continuing calibration | MW | CCR ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | MW | FB=1. EB=6 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | ICS |
| X. | Field duplicates | A | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | A | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | TB-6-061620 | 2017454-01 | Water | 06/16/20 |
| 2 | MW-20-5 | 2017454-02 | Water | 06/16/20 |
| 3 | MW-20-4 | 2017454-03 | Water | 06/16/20 |
| 4 | MW-20-3 | 2017454-04 | Water | 06/16/20 |
| 5 | MW-20-2** | 2017454-05** | Water | 06/16/20 |
| 6 | EB-6-061620 | 2017454-06 | Water | 06/16/20 |
| 7 | MW-24-4 | 2017454-07 | Water | 06/16/20 |
| 8 | MW-24-3 | 2017454-08 | Water | 06/16/20 |
| 9 | MW-20-2MS | 2017454-05MS | Water | 06/16/20 |
| 10 | MW-20-2MSD | 2017454-05MSD | Water | 06/16/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

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

LDC #: 1363/B/9

VALIDATION FINDINGS CHECKLIST

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

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

Field Blanks

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

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

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

| Compound | Concentration Units () |
|------------|-------------------------|
| <u>THP</u> | <u>19</u> |
| | |
| | |
| | |
| | |
| | |

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

| Compound | Concentration Units () |
|----------|-------------------------|
| | |
| | |
| | |
| | |
| | |
| | |

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

| Compound | Concentration Units () |
|----------|-------------------------|
| | |
| | |
| | |
| | |
| | |
| | |

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-----------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (initial) | Average RRF (initial) | %RSD | %RSD |
| 1 | ICAL (MS-V5) | 6/1/20 | K (1st internal standard) | 0.6723501 | 0.67235 | 0.6584789 | 0.6584789 | 2.271494 | 2.272 |
| | | | S (2nd internal standard) | 0.3480862 | 0.3480861 | 0.3443647 | 0.3443647 | 4.923863 | 4.924 |
| | | | EE (3rd internal standard) | 1.866471 | 1.866471 | 1.794106 | 1.794106 | 5.729535 | 5.729 |
| | | | (4th internal standard) | | | | | | |
| 2 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 3 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 4 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (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 | 19JUN02 | 6/22/2 | K (1st internal standard) | 0.6584789 | 0.7011749 | 0.7011749 | 6.5 | 6.5 |
| | | | S (2nd internal standard) | 0.3443647 | 0.3454481 | 0.345448 | 0.3 | 0.3 |
| | | | EE (3rd internal standard) | 1.794106 | 1.744786 | 1.744786 | 2.7 | 2.7 |
| | | | (4th internal standard) | | | | | |
| 2 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 3 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 4 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (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 #: 1065139

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: Q
 2nd reviewer: SV6

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: 5

| | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|---------------------------------------|------------------|-----------------|------------------|------------------|--------------------|
| | | | Reported | Recalculated | |
| Toluene-d8 | 10.0 | 9.95 | 99.5 | 99.5 | |
| Bromofluorobenzene | ↓ | 10.06 | 101 | 101 | |
| 1,2-Dichlorobenzene-d4 <u>1,2-DCA</u> | ↓ | 10.54 | 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 #: 4868B19

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: 3080515-BS1

| Compound | Spike Added (<u>164</u>) | | Spiked Sample Concentration (<u>164</u>) | | LCS | | LCSD | | LCS/LCSD | |
|--------------------|-------------------------------|-----------|---|-----------|------------------|-------------|------------------|---------|----------|--------------|
| | LCS | LCSD | LCS | LCSD | Percent Recovery | | Percent Recovery | | RPD | |
| | | | | | Reported | Recalc. | Reported | Recalc. | Reported | Recalculated |
| 1,1-Dichloroethene | <u>25.0</u> | <u>NA</u> | <u>27.36</u> | <u>NA</u> | <u>109</u> | <u>109</u> | | | | |
| Trichloroethene | ↓ | ↓ | <u>25.64</u> | ↓ | <u>103</u> | <u>103</u> | | | | |
| Benzene | ↓ | ↓ | <u>25.71</u> | ↓ | <u>103</u> | <u>103</u> | | | | |
| Toluene | ↓ | ↓ | <u>24.57</u> | ↓ | <u>98.7</u> | <u>98.7</u> | | | | |
| Chlorobenzene | ↓ | ↓ | <u>23.78</u> | ↓ | <u>95.1</u> | <u>95.1</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, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Metals

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017454

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-20-5 | 2017454-02 | Water | 06/16/20 |
| MW-20-4 | 2017454-03 | Water | 06/16/20 |
| MW-20-3 | 2017454-04 | Water | 06/16/20 |
| MW-20-2** | 2017454-05** | Water | 06/16/20 |
| EB-6-061620 | 2017454-06 | Water | 06/16/20 |
| MW-24-4 | 2017454-07 | Water | 06/16/20 |
| MW-24-3 | 2017454-08 | Water | 06/16/20 |
| MW-20-2MS | 2017454-05MS | Water | 06/16/20 |
| MW-20-2MSD | 2017454-05MSD | Water | 06/16/20 |
| MW-20-2DUP | 2017454-05DUP | Water | 06/16/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|-----------|-----------------------|--|
| PB (prep blank) | Potassium | 0.10966 mg/L | MW-20-5 MW-20-4 MW-20-3 MW-20-2** EB-6-061620 MW-24-4 |
| ICB/CCB | Magnesium | 0.37422 mg/L | MW-24-3 |

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.

VI. Field Blanks

Sample EB-6-061620 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|-------------------|-------------------------|
| EB-6-061620 | Calcium Sodium | 0.048 mg/L 0.16 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

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

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017454**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017454**

No Sample Data Qualified in this SDG

LDC #: 48681B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/6/2020

SDG #: 2017454

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *DJM*2nd Reviewer: *[Signature]***METHOD:** Metals (EPA Method 200.7/200.8)

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

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

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-20-5 | 2017454-02 | Water | 06/16/20 |
| 2 | MW-20-4 | 2017454-03 | Water | 06/16/20 |
| 3 | MW-20-3 | 2017454-04 | Water | 06/16/20 |
| 4 | MW-20-2** | 2017454-05** | Water | 06/16/20 |
| 5 | EB-6-061620 | 2017454-06 | Water | 06/16/20 |
| 6 | MW-24-4 | 2017454-07 | Water | 06/16/20 |
| 7 | MW-24-3 | 2017454-08 | Water | 06/16/20 |
| 8 | MW-20-2MS | 2017454-05MS | Water | 06/16/20 |
| 9 | MW-20-2MSD | 2017454-05MSD | Water | 06/16/20 |
| 10 | MW-20-2DUP | 2017454-05DUP | Water | 06/16/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes:

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

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

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

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

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

Soil preparation factor applied: _____

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1-6

| | | | | | Sample Identification | | | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (mg/L) | Action Level | NO QUAL | | | | | | | | | | | | | |
| K | | | 0.10966 | 0.5483 | | | | | | | | | | | | | | |

Associated Samples: 7

| | | | | | Sample Identification | | | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (mg/L) | Action Level | NO QUAL | | | | | | | | | | | | | |
| Mg | | | 0.037422 | 0.18711 | | | | | | | | | | | | | | |

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 | |
| 2 | ICP (Low Level calibration) | | | | | | |
| 2 | ICP/MS (Low Level calibration) | | | | | | |
| ICV | ICP (Initial calibration) | Fe | 20.104 mg/L | 20.000 mg/L | 101 | 101 | Y |
| ICV | ICP/MS (Initial calibration) | Cr | 50.286 | 50.000 | 100 ¹⁰¹ | 101 | Y |
| 2 | CVAA (Initial calibration) | | | | | | |
| CCV4 | ICP (Continuing calibration) | Na | 48.484 | 50.000 | 97 | 97 | Y |
| CCV4 | ICP/MS (Continuing calibration) | Pb | 101.54 | 100.00 | 102 | 102 | Y |
| 2 | CVAA (Continuing calibration) | | | | | | |

| ICP-MS TUNE | Calculation | Mass | Actual (Mean Counts / Axis) | Required (Counts / Axis) | Recalculated %RSD | Acceptable (Y/N) |
|-------------|-------------|------|-----------------------------|--------------------------|-------------------|------------------|
| 611912020 | Mass Axis | 24 | 24.0 | ± 0.1 AMU | NA | Y |
| 6 | %RSD | 115 | 0.3 | ≤ 5% RSD | 0.3 | Y |

Comments:

LDC #: 480691349

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: DJM
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 | |
| IFB | ICP interference check | Mg | 475.57 mg/L | 500.00 mg/L | 95.1 | 95.1 | Y |
| LCS | Laboratory control sample | Pb | 100.85 ug/L | 100 ug/L | 109 | 109 | Y |
| 8 | Matrix spike | As | (SSR-SR) 110.78 ug/L | 100 ug/L | 111 | 111 | Y |
| 10 | Duplicate | Ca | 92.84 mg/L | 90.79 mg/L | 2.22 | 2.24 | Y |
| N | ICP serial dilution | | | | | | |

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017454

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-20-5 | 2017454-02 | Water | 06/16/20 |
| MW-20-4 | 2017454-03 | Water | 06/16/20 |
| MW-20-3 | 2017454-04 | Water | 06/16/20 |
| MW-20-2** | 2017454-05** | Water | 06/16/20 |
| EB-6-061620 | 2017454-06 | Water | 06/16/20 |
| MW-24-4 | 2017454-07 | Water | 06/16/20 |
| MW-24-3 | 2017454-08 | Water | 06/16/20 |
| MW-20-2MS | 2017454-05MS | Water | 06/16/20 |
| MW-20-2MSD | 2017454-05MSD | Water | 06/16/20 |
| MW-20-2DUP | 2017454-05DUP | Water | 06/16/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 3220B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------------------|-----------------------|---|
| ICB/CCB | Hexavalent chromium | 0.033 mg/L | MW-24-4 MW-24-3 |
| PB (prep blank) | Chloride | 0.176 mg/L | All samples in SDG 2017454 |
| ICB/CCB | Chloride | 0.200 mg/L | All samples in SDG 2017454 |
| ICB/CCB | Nitrite as N | 0.012977 mg/L | MW-20-5 MW-20-4 MW-20-3 MW-20-2** EB-6-061620 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|---------|-------------------------------------|-----------------------------|-------------------------------|
| MW-24-4 | Hexavalent chromium Nitrite as N | 0.000063 mg/L 0.035 mg/L | 0.000063U mg/L 0.035U mg/L |
| MW-24-3 | Hexavalent chromium | 0.000041 mg/L | 0.000041U mg/L |

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|--------------|------------------------|------------------------------|
| EB-6-061620 | Chloride | 0.20 mg/L | 0.20U mg/L |
| MW-20-2** | Nitrite as N | 0.012 mg/L | 0.012U mg/L |

V. Field Blanks

Sample EB-6-061620 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--|---|
| EB-6-061620 | pH Total dissolved solids Hexavalent chromium Chloride Sulfate | 4.47 units 3.3 mg/L 0.000037 mg/L 0.20 mg/L 0.24 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017454**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017454**

| Sample | Analyte | Modified Final Concentration | A or P |
|-------------|-------------------------------------|-------------------------------|--------|
| MW-24-4 | Hexavalent chromium Nitrite as N | 0.000063U mg/L 0.035U mg/L | A |
| MW-24-3 | Hexavalent chromium | 0.000041U mg/L | A |
| EB-6-061620 | Chloride | 0.20U mg/L | A |
| MW-20-2** | Nitrite as N | 0.012U mg/L | A |

LDC #: 48681B6

VALIDATION COMPLETENESS WORKSHEET

Date: 06/16/2020

SDG #: 2017454

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|-------|--|
| I. | Sample receipt/Technical holding times | A / A | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW | EB=5 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | N | |
| X. | Sample result verification | A | Not reviewed for Level III validation. |
| XI | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-20-5 | 2017454-02 | Water | 06/16/20 |
| 2 | MW-20-4 | 2017454-03 | Water | 06/16/20 |
| 3 | MW-20-3 | 2017454-04 | Water | 06/16/20 |
| 4 | MW-20-2** | 2017454-05** | Water | 06/16/20 |
| 5 | EB-6-061620 | 2017454-06 | Water | 06/16/20 |
| 6 | MW-24-4 | 2017454-07 | Water | 06/16/20 |
| 7 | MW-24-3 | 2017454-08 | Water | 06/16/20 |
| 8 | MW-20-2MS | 2017454-05MS | Water | 06/16/20 |
| 9 | MW-20-2MSD | 2017454-05MSD | Water | 06/16/20 |
| 10 | MW-20-2DUP | 2017454-05DUP | Water | 06/16/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

Notes: _____

Method: Inorganics (EPA Method)

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

LDC #: 481081136

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: DTM
 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: 6-7

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | |
|---------|----------|----------------|--------------------|----------|----------|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (ug/L) | | 6 | 7 | | | | | | | | |
| Cr6 | | 0.033 | 0.000165 | 0.000063 | 0.000041 | | | | | | | | |

Associated Samples: 1-7

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | |
|----------|----------|----------------|--------------------|------|--|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (ug/L) | | 5 | | | | | | | | | |
| Chloride | 0.176 | 0.200 | 1.0 | 0.20 | | | | | | | | | |

Associated Samples: 1-5

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | |
|---------|----------|----------------|--------------------|-------|-------|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (mg/L) | | 4 | 6 | | | | | | | | |
| NO2-N | | 0.012977 | 0.064885 | 0.012 | 0.035 | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/16/2020 **Soil factor applied:** NA

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

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | |
|---------------------|----------|--------------|-----------------------|--|--|--|--|--|--|--|
| | 5 | | No Qualifiers | | | | | | | |
| pH(pH units) | 4.47 | | | | | | | | | |
| TDS | 3.3 | | | | | | | | | |
| Hexavalent Chromium | 0.000037 | | | | | | | | | |
| Chloride | 0.20 | | | | | | | | | |
| Sulfate | 0.24 | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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 #: 48681B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1

Reviewer: DTM

2nd Reviewer: 

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Perchlorate was recalculated. Calibration date: 6/22/2020

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

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

Where,

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

True = concentration of each analyte in the ICV or CCV source

| Type of analysis | Analyte | Standard | Conc. (mg/L) | Abs | Recalculated | Reported | Acceptable (Y/N) |
|------------------------------|-------------|----------|--------------|--------|---------------------|---------------------|---------------------|
| | | | | | r or r ² | r or r ² | |
| Initial calibration | Perchlorate | s1 | 2.03 | 0.0022 | 0.9999944 | NR | Y |
| | | s2 | 3.98 | 0.0044 | | | |
| | | s3 | 6.088 | 0.0067 | | | |
| | | s4 | 9.946 | 0.0109 | | | |
| | | s5 | 20.002 | 0.022 | | | |
| ICV Calibration verification | Cr6 | 24.468 | 25 | | 97.9 | 97.9 | Y |
| ICV Calibration verification | NO3-N | 4.872 | 5 | | 97.4 | 97.4 | Y |
| ICV Calibration verification | ClO4 | 10.046 | 10 | | 100 | 100 | Y |

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

LDC #: 4008136

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: DTM
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 | TDS | 595mg/L | 586mg/L | 102 | 102 | Y |
| 8 | Matrix spike sample | 804 | (SSR-SR) 106.52mg/L | 101.01mg/L | 105 | 105 | Y |
| 10 | Duplicate sample | PH (PH UNITS) | 7.93 | 7.97 | 0.503 | 0.503 | Y |

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017715

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| TB-8-061820 | 2017715-01 | Water | 06/18/20 |
| MW-25-5 | 2017715-02 | Water | 06/18/20 |
| MW-25-4 | 2017715-03 | Water | 06/18/20 |
| MW-25-3 | 2017715-04 | Water | 06/18/20 |
| MW-25-2** | 2017715-05** | Water | 06/18/20 |
| MW-25-1 | 2017715-06 | Water | 06/18/20 |
| EB-8-061820 | 2017715-07 | Water | 06/18/20 |
| MW-12-5 | 2017715-08 | Water | 06/18/20 |
| MW-12-4 | 2017715-09 | Water | 06/18/20 |
| MW-25-2MS | 2017715-05MS | Water | 06/18/20 |
| MW-25-2MSD | 2017715-05MSD | Water | 06/18/20 |

**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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/08/20 | Pentachloroethane | 76.0 | All samples in SDG 2017715 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|--------------|------|----------------------------|----------------------|--------|
| 06/22/20 (22JUN02) | Bromomethane | 38.9 | All samples in SDG 2017715 | UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|---------------|------|-------------------------------|----------------------|--------|
| 06/22/20 (22JUN03) | Methyl iodide | 89.9 | All samples in SDG 2017715 | 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-8-061820 was identified as a trip blank. No contaminants were found.

Sample EB-8-061820 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2017715**

| Sample | Compound | Flag | A or P | Reason |
|---|-------------------------------|--|--------|---------------------------------------|
| TB-8-061820 MW-25-5 MW-25-4 MW-25-3 MW-25-2** MW-25-1 EB-8-061820 MW-12-5 MW-12-4 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-8-061820 MW-25-5 MW-25-4 MW-25-3 MW-25-2** MW-25-1 EB-8-061820 MW-12-5 MW-12-4 | Bromomethane Methyl iodide | UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

**NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017715**

No Sample Data Qualified in this SDG

LDC #: 48681C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017715

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 8/1/20

Page: 2 of 7

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A, M | $RSD \leq 20\%$ $r^2 \geq 0.99$ $CV \leq 30\%$ |
| IV. | Continuing calibration | M | $CV \leq 30\%$ |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB=1. EB=7 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | A | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | TB-8-061820 | 2017715-01 | Water | 06/18/20 |
| 2 | MW-25-5 | 2017715-02 | Water | 06/18/20 |
| 3 | MW-25-4 | 2017715-03 | Water | 06/18/20 |
| 4 | MW-25-3 | 2017715-04 | Water | 06/18/20 |
| 5 | MW-25-2** | 2017715-05** | Water | 06/18/20 |
| 6 | MW-25-1 | 2017715-06 | Water | 06/18/20 |
| 7 | EB-8-061820 | 2017715-07 | Water | 06/18/20 |
| 8 | MW-12-5 | 2017715-08 | Water | 06/18/20 |
| 9 | MW-12-4 | 2017715-09 | Water | 06/18/20 |
| 10 | MW-25-2MS | 2017715-05MS | Water | 06/18/20 |
| 11 | MW-25-2MSD | 2017715-05MSD | Water | 06/18/20 |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

Method: Volatiles (EPA Method 524.2)

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

LDC #: 4868/219

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: 9
 2nd Reviewer: CV

| 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 Method 524.2)

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

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

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

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

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-----------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (initial) | Average RRF (initial) | %RSD | %RSD |
| 1 | ICAL (MS-V5) | 6/1/20 | K (1st internal standard) | 0.6723501 | 0.67235 | 0.6584789 | 0.6584789 | 2.271494 | 2.272 |
| | | | S (2nd internal standard) | 0.3480862 | 0.3480861 | 0.3443647 | 0.3443647 | 4.923863 | 4.924 |
| | | | EE (3rd internal standard) | 1.866471 | 1.866471 | 1.794106 | 1.794106 | 5.729535 | 5.729 |
| | | | (4th internal standard) | | | | | | |
| 2 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 3 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 4 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (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 | 22JUN02 | 6/22/2 | K (1st internal standard) | 0.6584789 | 0.7011524 | 0.7011523 | 6.5 | 6.5 |
| | | | S (2nd internal standard) | 0.3443647 | 0.3376512 | 0.3376511 | 1.9 | 1.9 |
| | | | EE (3rd internal standard) | 1.794106 | 1.617447 | 1.617447 | 9.8 | 9.8 |
| | | | (4th internal standard) | | | | | |
| 2 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 3 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 4 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (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 # 186819

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: 5

| | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|---------------------------------------|------------------|-----------------|------------------|------------------|--------------------|
| | | | Reported | Recalculated | |
| Toluene-d8 | 10.0 | 9.60 | 96.0 | 96.0 | |
| Bromofluorobenzene | ↓ | 10.17 | 102 | 102 | |
| 1,2-Dichlorobenzene-d4 <u>1,2-DCA</u> | ↓ | 11.36 | 114 | 114 | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike concentration

MSC = Matrix spike duplicate concentration

MS/MSD sample: 10/11

| Compound | Spike Added (ug) | | Sample Concentration (ug) | Spiked Sample Concentration (ug) | | 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 | 25.0 | 25.0 | ND | 29.27 | 29.48 | 117 | 117 | 118 | 118 | 0.715 | 0.715 |
| Trichloroethene | ↓ | ↓ | 0.510 | 27.98 | 27.59 | 110 | 110 | 108 | 108 | 1.40 | 1.40 |
| Benzene | ↓ | ↓ | ND | 27.32 | 26.94 | 109 | 109 | 108 | 108 | 1.40 | 1.40 |
| Toluene | ↓ | ↓ | ↓ | 25.66 | 25.17 | 103 | 103 | 101 | 101 | 1.93 | 1.93 |
| Chlorobenzene | ↓ | ↓ | ↓ | 24.92 | 24.13 | 99.7 | 99.7 | 98.9 | 98.9 | 0.765 | 0.765 |

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 #: 4868/C/9

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B080714-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 | 25.0 | NA | 29.61 | NA | 118 | 118 | | | | |
| Trichloroethene | ↓ | ↓ | 57.27 | ↓ | 109 | 109 | | | | |
| Benzene | ↓ | ↓ | 57.24 | ↓ | 109 | 109 | | | | |
| Toluene | ↓ | ↓ | 25.28 | ↓ | 101 | 101 | | | | |
| Chlorobenzene | ↓ | ↓ | 24.57 | ↓ | 98.7 | 98.7 | | | | |

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Metals

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017715

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-25-5 | 2017715-02 | Water | 06/18/20 |
| MW-25-4 | 2017715-03 | Water | 06/18/20 |
| MW-25-3 | 2017715-04 | Water | 06/18/20 |
| MW-25-2** | 2017715-05** | Water | 06/18/20 |
| MW-25-1 | 2017715-06 | Water | 06/18/20 |
| EB-8-061820 | 2017715-07 | Water | 06/18/20 |
| MW-12-5 | 2017715-08 | Water | 06/18/20 |
| MW-12-4 | 2017715-09 | Water | 06/18/20 |
| MW-25-2MS | 2017715-05MS | Water | 06/18/20 |
| MW-25-2MSD | 2017715-05MSD | Water | 06/18/20 |
| MW-25-2DUP | 2017715-05DUP | Water | 06/18/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|--------------------------------|--|----------------------------|
| PB (prep blank) | Calcium Magnesium Sodium | 0.014790 mg/L 0.22945 mg/L 0.051150 mg/L | All samples in SDG 2017715 |
| ICB/CCB | Magnesium Sodium | 0.022692 mg/L 0.069891 mg/L | MW-25-5 MW-25-2** |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|--------------------------------|---------------------------------------|--|
| EB-8-061820 | Calcium Magnesium Sodium | 0.045 mg/L 0.024 mg/L 0.15 mg/L | 0.045U mg/L 0.024U mg/L 0.15U mg/L |

VI. Field Blanks

Sample EB-8-061820 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--------------------------------|---------------------------------------|
| EB-8-061820 | Calcium Magnesium Sodium | 0.045 mg/L 0.024 mg/L 0.15 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

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

| Spike ID (Associated Samples) | Analyte | MS (%R) (Limits) | MSD (%R) (Limits) | Flag | A or P |
|---|-----------|---------------------|----------------------|-----------------|--------|
| MW-25-2MS/MSD (All samples in SDG 2017715) | Magnesium | - | 74.5 (75-125) | J (all detects) | A |

For MW-25-2MS/MSD, no data were qualified for calcium and sodium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

Due to laboratory blank contamination, data were qualified as not detected in one sample.

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017715**

| Sample | Analyte | Flag | A or P | Reason |
|--|-----------|-----------------|--------|--|
| MW-25-5 MW-25-4 MW-25-3 MW-25-2** MW-25-1 EB-8-061820 MW-12-5 MW-12-4 | Magnesium | J (all detects) | A | Matrix spike/Matrix spike duplicate (%R) |

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017715**

| Sample | Analyte | Modified Final Concentration | A or P |
|-------------|--------------------------------|--|--------|
| EB-8-061820 | Calcium Magnesium Sodium | 0.045U mg/L 0.024U mg/L 0.15U mg/L | A |

LDC #: 48681C4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/10/2020

SDG #: 2017715

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: DM

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|-------|--|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | EB=6 |
| VII. | Matrix Spike/Matrix Spike Duplicates | SW | |
| VIII. | Duplicate sample analysis | A | |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | ICS |
| 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 ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-25-5 | 2017715-02 | Water | 06/18/20 |
| 2 | MW-25-4 | 2017715-03 | Water | 06/18/20 |
| 3 | MW-25-3 | 2017715-04 | Water | 06/18/20 |
| 4 | MW-25-2** | 2017715-05** | Water | 06/18/20 |
| 5 | MW-25-1 | 2017715-06 | Water | 06/18/20 |
| 6 | EB-8-061820 | 2017715-07 | Water | 06/18/20 |
| 7 | MW-12-5 | 2017715-08 | Water | 06/18/20 |
| 8 | MW-12-4 | 2017715-09 | Water | 06/18/20 |
| 9 | MW-25-2MS | 2017715-05MS | Water | 06/18/20 |
| 10 | MW-25-2MSD | 2017715-05MSD | Water | 06/18/20 |
| 11 | MW-25-2DUP | 2017715-05DUP | Water | 06/18/20 |
| 12 | | | | |
| 13 | | | | |

Notes:

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

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

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

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

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

Soil preparation factor applied: _____

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1-8

| | | | | | Sample Identification | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (mg/L) | Action Level | 6 | | | | | | | | | | | |
| Ca | 0.014790 | | | 0.07395 | 0.045 | | | | | | | | | | | |
| Mg | 0.022945 | | | 0.1147 | 0.024 | | | | | | | | | | | |
| Na | 0.051150 | | | 0.2557 | 0.15 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Associated Samples: 1.4

| | | | | | Sample Identification | | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/L) | Maximum PB ^a (ug/L) | Maximum ICB/CCB ^a (mg/L) | Action Level | NO QUAL | | | | | | | | | | | |
| Mg | | | 0.022692 | 0.11346 | | | | | | | | | | | | |
| Na | | | 0.069891 | 0.34945 | | | | | | | | | | | | |

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

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

LDC #: 492601CUA

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation Verification

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

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 | |
| N | ICP (Low Level calibration) | | | | | | |
| N | ICP/MS (Low Level calibration) | | | | | | |
| ICV | ICP (Initial calibration) ICP/MS | Pb | 126.95 | 125 | 102 | 102 | Y |
| ICV | ICP/MS (Initial calibration) ICP | Na | 50.021 mg/L | 50.000 mg/L | 100 | 100 | Y |
| N | CVAA (Initial calibration) | | | | | | |
| CCV3 | ICP (Continuing calibration) | Fe | 10.299 mg/L | 10.000 | 103 | 103 | Y |
| CCV4 | ICP/MS (Continuing calibration) | Cr | 40.764 | 40.000 | 102 | 102 | Y |
| N | CVAA (Continuing calibration) | | | | | | |

| ICP-MS TUNE | Calculation | Mass | Actual (Mean Counts / Axis) | Required (Counts / Axis) | Recalculated %RSD | Acceptable (Y/N) |
|-------------|-------------|------|-----------------------------|--------------------------|-------------------|------------------|
| 6/24/2020 | Mass Axis | 115 | 114.9 | ± 0.1 AMU | NA | Y |
| ↓ | %RSD | 24 | 0.9 | ≤ 5% RSD | 0.9 | Y |

Comments:

VALIDATION FINDINGS WORKSHEET

Level IV Recalculation Worksheet

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

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

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

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

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

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

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

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

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

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

| Sample ID | Type of Analysis | Element | Found / S / I (units) | True / D / SDR (units) | Recalculated | Reported | Acceptable (Y/N) |
|-----------|---------------------------|---------|--------------------------|------------------------|---------------|---------------|---------------------|
| | | | | | %R / RPD / %D | %R / RPD / %D | |
| IFB | ICP interference check | Ca | 521.40 mg/L | 500 mg/L | 104 | 104 | Y |
| LCS | Laboratory control sample | Fe | 1042.1 ug/L | 1000.0 ug/L | 104 | 104 | Y |
| a | Matrix spike | Pb | (SSR-SR) 90.036 ug/L | 100.00 ug/L | 90.0 | 90.0 | Y |
| 11 | Duplicate | Cr | 2.7860 ug/L | 3.1540 ug/L | 12.2 | 12.4 | Y |
| N | ICP serial dilution | | | | | | |

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017715

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-25-5 | 2017715-02 | Water | 06/18/20 |
| MW-25-4 | 2017715-03 | Water | 06/18/20 |
| MW-25-3 | 2017715-04 | Water | 06/18/20 |
| MW-25-2** | 2017715-05** | Water | 06/18/20 |
| MW-25-1 | 2017715-06 | Water | 06/18/20 |
| EB-8-061820 | 2017715-07 | Water | 06/18/20 |
| MW-12-5 | 2017715-08 | Water | 06/18/20 |
| MW-12-4 | 2017715-09 | Water | 06/18/20 |
| MW-25-2MS | 2017715-05MS | Water | 06/18/20 |
| MW-25-2MSD | 2017715-05MSD | Water | 06/18/20 |
| MW-25-2DUP | 2017715-05DUP | Water | 06/18/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 3220B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|--|---------|--|---|-----------------|--------|
| MW-25-5 MW-25-4 MW-25-3 MW-25-2** MW-25-1 EB-8-061820 MW-12-5 MW-12-4 | pH | 5 days | 48 hours | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---|--|---|
| PB (prep blank) | Hexavalent chromium Chloride Nitrite as N | 0.000032 mg/L 0.190 mg/L 0.012654 mg/L | All samples in SDG 2017715 |
| ICB/CCB | Hexavalent chromium Chloride | 0.04 mg/L 0.226 mg/L | All samples in SDG 2017715 |
| ICB/CCB | Nitrite as N | 0.017832 mg/L | MW-25-2** |
| ICB/CCB | Nitrite as N | 0.015800 mg/L | MW-25-5 MW-25-4 MW-25-3 MW-25-1 EB-8-061820 MW-12-5 MW-12-4 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|---|--|---|
| MW-25-1 | Hexavalent chromium Nitrite as N | 0.000036 mg/L 0.012 mg/L | 0.000036U mg/L 0.012U mg/L |
| EB-8-061820 | Hexavalent chromium Chloride Nitrite as N | 0.000060 mg/L 0.19 mg/L 0.013 mg/L | 0.000060U mg/L 0.19U mg/L 0.013U mg/L |
| MW-25-2** | Nitrite as N | 0.015 mg/L | 0.015U mg/L |
| MW-25-5 | Nitrite as N | 0.016 mg/L | 0.016U mg/L |
| MW-25-4 | Nitrite as N | 0.014 mg/L | 0.014U mg/L |
| MW-25-3 | Nitrite as N | 0.013 mg/L | 0.013U mg/L |
| MW-12-5 | Nitrite as N | 0.015 mg/L | 0.015U mg/L |
| MW-12-4 | Nitrite as N | 0.015 mg/L | 0.015U mg/L |

V. Field Blanks

Sample EB-8-061820 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|---|--|
| EB-8-061820 | pH Total dissolved solids Hexavalent chromium Chloride Nitrite as N | 4.51 units 5.3 mg/L 0.000060 mg/L 0.19 mg/L 0.013 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to technical holding time, data were qualified as estimated in eight samples.

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

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017715**

| Sample | Analyte | Flag | A or P | Reason |
|--|---------|-----------------|--------|-------------------------|
| MW-25-5 MW-25-4 MW-25-3 MW-25-2** MW-25-1 EB-8-061820 MW-12-5 MW-12-4 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017715**

| Sample | Analyte | Modified Final Concentration | A or P |
|-------------|---|---|--------|
| MW-25-1 | Hexavalent chromium Nitrite as N | 0.000036U mg/L 0.012U mg/L | A |
| EB-8-061820 | Hexavalent chromium Chloride Nitrite as N | 0.000060U mg/L 0.19U mg/L 0.013U mg/L | A |
| MW-25-2** | Nitrite as N | 0.015U mg/L | A |
| MW-25-5 | Nitrite as N | 0.016U mg/L | A |
| MW-25-4 | Nitrite as N | 0.014U mg/L | A |
| MW-25-3 | Nitrite as N | 0.013U mg/L | A |
| MW-12-5 | Nitrite as N | 0.015U mg/L | A |
| MW-12-4 | Nitrite as N | 0.015U mg/L | A |

LDC #: 48681C6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/16/2020

SDG #: 2017715

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

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

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|--------|--|
| I. | Sample receipt/Technical holding times | A / SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW | EB=6 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | N | |
| X. | Sample result verification | A | Not reviewed for Level III validation. |
| XI | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-25-5 | 2017715-02 | Water | 06/18/20 |
| 2 | MW-25-4 | 2017715-03 | Water | 06/18/20 |
| 3 | MW-25-3 | 2017715-04 | Water | 06/18/20 |
| 4 | MW-25-2** | 2017715-05** | Water | 06/18/20 |
| 5 | MW-25-1 | 2017715-06 | Water | 06/18/20 |
| 6 | EB-8-061820 | 2017715-07 | Water | 06/18/20 |
| 7 | MW-12-5 | 2017715-08 | Water | 06/18/20 |
| 8 | MW-12-4 | 2017715-09 | Water | 06/18/20 |
| 9 | MW-25-2MS | 2017715-05MS | Water | 06/18/20 |
| 10 | MW-25-2MSD | 2017715-05MSD | Water | 06/18/20 |
| 11 | MW-25-2DUP | 2017715-05DUP | Water | 06/18/20 |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

Notes: _____

VALIDATION FINDINGS CHECKLIST

Method: Inorganics (EPA Method)

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

LDC #: 4060104

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: DTM
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: 1-8

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | | |
|----------|----------|----------------|--------------------|----------|----------|--|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (ug/L) | | 5 | 6 | | | | | | | | | |
| Cr6 | 0.000032 | 0.04 | 0.0002 | 0.000036 | 0.000060 | | | | | | | | | |
| Chloride | 0.190 | 0.226 | 1.13 | | 0.19 | | | | | | | | | |
| NO2-N | 0.012654 | | 0.06327 | | | | | | | | | | | |

Associated Samples: 4

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | | |
|---------|----------|----------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| | PB | ICB/CCB (mg/L) | | 4 | | | | | | | | | | |
| NO2-N | | 0.017832 | 0.08916 | 0.015 | | | | | | | | | | |

Associated Samples: 1-5,6-8

| Analyte | Blank ID | Blank ID | Blank Action Limit | | | | | | | | | | | |
|---------|----------|----------------|--------------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| | PB | ICB/CCB (mg/L) | | 1 | 2 | 3 | 5 | 6 | 7 | 8 | | | | |
| NO2-N | | 0.015800 | 0.079 | 0.016 | 0.014 | 0.013 | 0.012 | 0.013 | 0.015 | 0.015 | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET

Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/18/2020 **Soil factor applied:** NA

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

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | |
|---------------------|----------|--------------|-----------------------|--|--|--|--|--|--|--|
| | 6 | | No Qualifiers | | | | | | | |
| pH(pH units) | 4.51 | | | | | | | | | |
| TDS | 5.3 | | | | | | | | | |
| Hexavalent Chromium | 0.000060 | | | | | | | | | |
| Chloride | 0.19 | | | | | | | | | |
| Nitrite-N | 0.013 | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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".

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Perchlorate was recalculated. Calibration date: 6/29/2020

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

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

Where,

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

True = concentration of each analyte in the ICV or CCV source

| Type of analysis | Analyte | Standard | Conc. (mg/L) | Abs | Recalculated | Reported | Acceptable (Y/N) |
|-------------------------------|-------------|----------|--------------|--------|---------------------|---------------------|---------------------|
| | | | | | r or r ² | r or r ² | |
| Initial calibration | Perchlorate | s1 | 2.017 | 0.0023 | 0.9999960 | NR | Y |
| | | s2 | 3.827 | 0.0043 | | | |
| | | s3 | 6.631 | 0.0075 | | | |
| | | s4 | 10.154 | 0.0114 | | | |
| | | s5 | 19.767 | 0.0222 | | | |
| CCV1 Calibration verification | Cr6 | 24.529 | 25 | | 98.1 | 98.1 | Y |
| CCV2 Calibration verification | SO4 | 96.788 | 100 | | 96.8 | 96.8 | Y |
| CCV2 Calibration verification | ClO4 | 9.3141 | 10 | | 93.1 | 93.1 | 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 #: 48681CL

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: DTM
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 | |
| 1CS | Laboratory control sample | pH | 6.98pH | 7.00pH | 99.7 | 99.7 | Y |
| 9 | Matrix spike sample | Cl | (SSR-SR) 55.408mg/L | 50.505mg/L | 110 | 110 | Y |
| 11 | Duplicate sample | Cr6 | 0.002773mg/L | 0.002767mg/L | 0.217 | 0.217 | Y |

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017828

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| TB-9-061920 | 2017828-01 | Water | 06/19/20 |
| MW-23-5 | 2017828-02 | Water | 06/19/20 |
| MW-23-4 | 2017828-03 | Water | 06/19/20 |
| MW-23-3 | 2017828-04 | Water | 06/19/20 |
| MW-23-2** | 2017828-05** | Water | 06/19/20 |
| MW-23-1 | 2017828-06 | Water | 06/19/20 |
| Dup-3-2Q2020 | 2017828-07 | Water | 06/19/20 |
| EB-9-061920 | 2017828-08 | Water | 06/19/20 |
| MW-12-3 | 2017828-09 | Water | 06/19/20 |
| Dup-4-2Q2020 | 2017828-10 | Water | 06/19/20 |
| MW-12-2 | 2017828-11 | Water | 06/19/20 |
| MW-12-1 | 2017828-12 | Water | 06/19/20 |
| SB-2-061920 | 2017828-13 | Water | 06/19/20 |
| MW-23-2MS | 2017828-05MS | Water | 06/19/20 |
| MW-23-2MSD | 2017828-05MSD | Water | 06/19/20 |

**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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/08/20 | Pentachloroethane | 76.0 | All samples in SDG 2017828 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|------------------------------------|--------------|--|--|--------|
| 06/22/20 (22JUN02) | Bromomethane | 38.9 | TB-9-061920 MW-23-5 MW-23-4 MW-23-3 MW-23-1 Dup-3-2Q2020 | UJ (all non-detects) | P |
| 06/22/20 (22JUN03) | Methyl iodide | 89.9 | TB-9-061920 MW-23-5 MW-23-4 MW-23-3 MW-23-1 Dup-3-2Q2020 | UJ (all non-detects) | P |
| 06/22/20 (22JUN31) | Bromomethane | 60.7 | MW-23-2** EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 | UJ (all non-detects) | P |
| 06/22/20 (22JUN32) | Methyl iodide Pentachloroethane | 79.3 96.4 | MW-23-2** EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 | 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-8-061820 was identified as a trip blank. No contaminants were found.

Sample EB-8-061820 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-23-1 and Dup-3-2Q2020 and samples MW-12-3 and Dup-4-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/L) | | RPD |
|----------------------|----------------------|--------------|-----|
| | MW-12-3 | Dup-4-2Q2020 | |
| Carbon tetrachloride | 1.4 | 1.2 | 15 |
| Chloroform | 0.86 | 07 | 21 |

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2017828**

| Sample | Compound | Flag | A or P | Reason |
|---|--|--|--------|---------------------------------------|
| TB-9-061920 MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-9-061920 MW-23-5 MW-23-4 MW-23-3 MW-23-1 Dup-3-2Q2020 | Bromomethane Methyl iodide | UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |
| MW-23-2** EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 | Bromomethane Methyl iodide Pentachloroethane | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

**NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017828**

No Sample Data Qualified in this SDG

LDC #: 48681D1a

VALIDATION COMPLETENESS WORKSHEET

Date: 6/1/20

SDG #: 2017828

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: 9

2nd Reviewer: DLG

METHOD: GC/MS Volatiles (EPA Method 524.2)

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

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A/MW | RSD ≤ 20%. Y ² CV ≤ 30% |
| IV. | Continuing calibration | MW | CV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB=1. EB=8. SB=13 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | MW | D=6+T. 9+10 |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | D | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|--------------|--------|----------|
| 1 | TB-9-061920 | 2017828-01 | Water | 06/19/20 |
| 2 | MW-23-5 | 2017828-02 | Water | 06/19/20 |
| 3 | MW-23-4 | 2017828-03 | Water | 06/19/20 |
| 4 | MW-23-3 | 2017828-04 | Water | 06/19/20 |
| 5 | MW-23-2** | 2017828-05** | Water | 06/19/20 |
| 6 | MW-23-1 | 2017828-06 | Water | 06/19/20 |
| 7 | Dup-3-2Q2020 | 2017828-07 | Water | 06/19/20 |
| 8 | EB-9-061920 | 2017828-08 | Water | 06/19/20 |
| 9 | MW-12-3 | 2017828-09 | Water | 06/19/20 |
| 10 | Dup-4-2Q2020 | 2017828-10 | Water | 06/19/20 |
| 11 | MW-12-2 | 2017828-11 | Water | 06/19/20 |
| 12 | MW-12-1 | 2017828-12 | Water | 06/19/20 |
| 13 | SB-2-061920 | 2017828-13 | Water | 06/19/20 |
| 14 | MW-23-2MS | 2017828-05MS | Water | 06/19/20 |

LDC #: 48681D1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017828

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 8/10

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method 524.2)

| | Client ID | Lab ID | Matrix | Date |
|----|------------|---------------|--------|----------|
| 15 | MW-23-2MSD | 2017828-05MSD | Water | 06/19/20 |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |

Notes:

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Method: Volatiles (EPA Method 524.2)

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

LDC #: 48681819

VALIDATION FINDINGS CHECKLIST

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

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC#: 48681D1A

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: GCMS VOA (EPA Method 524.2)

| Compound | Concentration (ug/L) | | RPD |
|----------|----------------------|-----|-----|
| | 9 | 10 | |
| O | 1.4 | 1.2 | 15 |
| K | 0.86 | 0.7 | 21 |

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2020\48681D1_JPL.wpd

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-----------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (initial) | Average RRF (initial) | %RSD | %RSD |
| 1 | ICAL (MS-V5) | 6/1/20 | K (1st internal standard) | 0.6723501 | 0.67235 | 0.6584789 | 0.6584789 | 2.271494 | 2.272 |
| | | | S (2nd internal standard) | 0.3480862 | 0.3480861 | 0.3443647 | 0.3443647 | 4.923863 | 4.924 |
| | | | EE (3rd internal standard) | 1.866471 | 1.866471 | 1.794106 | 1.794106 | 5.729535 | 5.729 |
| | | | (4th internal standard) | | | | | | |
| 2 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 3 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 4 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |

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

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference internal Standard) | Average RRF (initial) | Reported RRF (CC) | Recalculated RRF (CC) | Reported %D | Recalculated %D |
|---|-------------|------------------|--|-----------------------|-------------------|-----------------------|-------------|-----------------|
| 1 | 22JUN31 | 6/22/2 | K (1st internal standard) | 0.6584789 | 0.7246099 | 0.7246098 | 10.0 | 10.0 |
| | | | S (2nd internal standard) | 0.3443647 | 0.3588796 | 0.3588795 | 4.2 | 4.2 |
| | | | EE (3rd internal standard) | 1.794106 | 1.648244 | 1.648244 | 8.1 | 8.1 |
| | | | (4th internal standard) | | | | | |
| 2 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 3 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 4 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (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: 5

| | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|---------------------------------------|------------------|-----------------|------------------|------------------|--------------------|
| | | | Reported | Recalculated | |
| Toluene-d8 | 10.0 | 9.64 | 96.4 | 96.4 | |
| Bromofluorobenzene | ↓ | 10.09 | 101 | 101 | |
| 1,2-Dichlorobenzene-d4 <u>1,2-DCA</u> | ↓ | 11.51 | 115 | 115 | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

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

Sample ID: _____

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

Sample ID: _____

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

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 (ug) | | Sample Concentration (ug) | Spiked Sample Concentration (ug) | | 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 | 25.0 | 25.0 | ND | 30.810 | 30.870 | 123 | 123 | 123 | 123 | 0.0649 | 0.0649 |
| Trichloroethene | ↓ | ↓ | 1.03 | 28.690 | 28.990 | 111 | 111 | 112 | 112 | 1.04 | 1.04 |
| Benzene | ↓ | ↓ | ND | 28.880 | 28.550 | 116 | 116 | 114 | 114 | 1.15 | 1.15 |
| Toluene | ↓ | ↓ | ↓ | 25.850 | 26.080 | 103 | 103 | 104 | 104 | 0.886 | 0.886 |
| Chlorobenzene | ↓ | ↓ | ↓ | 25.070 | 25.070 | 100 | 100 | 100 | 100 | 0.160 | 0.160 |

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 #: 4868/0/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B080718-B51

| 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 | 25.0 | NA | 29.520 | NA | 118 | 118 | | | | |
| Trichloroethene | ↓ | ↓ | 29.770 | ↓ | 119 | 119 | | | | |
| Benzene | ↓ | ↓ | 27.710 | ↓ | 111 | 111 | | | | |
| Toluene | ↓ | ↓ | 25.820 | ↓ | 103 | 103 | | | | |
| Chlorobenzene | ↓ | ↓ | 25.100 | ↓ | 101 | 101 | | | | |

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, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Metals

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017828

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-23-5 | 2017828-02 | Water | 06/19/20 |
| MW-23-4 | 2017828-03 | Water | 06/19/20 |
| MW-23-3 | 2017828-04 | Water | 06/19/20 |
| MW-23-2** | 2017828-05** | Water | 06/19/20 |
| MW-23-1 | 2017828-06 | Water | 06/19/20 |
| Dup-3-2Q2020 | 2017828-07 | Water | 06/19/20 |
| EB-9-061920 | 2017828-08 | Water | 06/19/20 |
| MW-12-3 | 2017828-09 | Water | 06/19/20 |
| Dup-4-2Q2020 | 2017828-10 | Water | 06/19/20 |
| MW-12-2 | 2017828-11 | Water | 06/19/20 |
| MW-12-1 | 2017828-12 | Water | 06/19/20 |
| SB-2-061920 | 2017828-13 | Water | 06/19/20 |
| MW-23-2MS | 2017828-05MS | Water | 06/19/20 |
| MW-23-2MSD | 2017828-05MSD | Water | 06/19/20 |
| MW-23-2DUP | 2017828-05DUP | Water | 06/19/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|--------------------------------|---|--|
| ICB/CCB | Arsenic | 0.77300 mg/L | Dup-3-2Q2020 MW-12-3 Dup-4-2Q2020 MW-12-1 |
| ICB/CCB | Chromium | 0.62100 mg/L | MW-23-4 MW-23-3 MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 |
| PB (prep blank) | Calcium Magnesium Sodium | 0.014790 mg/L 0.022945 mg/L 0.051150 mg/L | MW-23-5 MW-23-4 |

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|-----------|-----------------------|--|
| ICB/CCB | Magnesium | 0.024463 mg/L | MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 |

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 |
|--------------|-----------------------|-------------------------|------------------------------|
| Dup-3-2Q2020 | Arsenic | 1.0 ug/L | 1.0U ug/L |
| MW-12-3 | Arsenic Chromium | 1.7 ug/L 1.0 ug/L | 1.7U ug/L 1.0U ug/L |
| Dup-4-2Q2020 | Arsenic Chromium | 1.9 ug/L 1.4 ug/L | 1.9U ug/L 1.4U ug/L |
| MW-12-1 | Arsenic Chromium | 0.79 ug/L 1.6 ug/L | 0.79U ug/L 1.6U ug/L |
| MW-23-1 | Chromium | 1.4 ug/L | 1.4U ug/L |
| EB-9-061920 | Chromium Magnesium | 0.60 ug/L 0.026 mg/L | 0.60U ug/L 0.026U mg/L |
| MW-12-2 | Chromium | 1.7 ug/L | 1.7U ug/L |
| SB-2-061920 | Magnesium | 0.025 mg/L | 0.025U mg/L |

VI. Field Blanks

Sample EB-9-061920 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--|--|
| EB-9-061920 | Chromium Calcium Magnesium Sodium | 0.60 ug/L 0.056 mg/L 0.026 mg/L 0.24 mg/L |

Sample SB-2-061920 was identified as a source blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--------------------------------|--------------------------------------|
| SB-2-061920 | Calcium Magnesium Sodium | 0.48 mg/L 0.025 mg/L 0.17 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-23-2MS/MSD, no data were qualified for calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-23-3 and Dup-3-2Q2020 and samples MW-12-3 and Dup-4-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|----------------|
| | MW-23-3 | Dup-3-2Q2020 | |
| Iron | 120 | 130 | 8 |
| Chromium | 3.2 | 3.5 | 9 |
| Arsenic | 0.70U | 3.5 | Not calculable |
| Calcium | 57 mg/L | 54 mg/L | 5 |
| Magnesium | 19 mg/L | 17 mg/L | 11 |
| Sodium | 34 mg/L | 31 mg/L | 9 |
| Potassium | 2.0 mg/L | 1.9 mg/L | 5 |

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|----------------|
| | MW-12-3 | Dup-4-2Q2020 | |
| Iron | 30U ug/L | 35 ug/L | Not calculable |
| Chromium | 1.7 ug/L | 1.9 ug/L | 11 |
| Arsenic | 1.0 ug/L | 1.4 ug/L | 33 |
| Calcium | 60 mg/L | 58 mg/L | 3 |
| Magnesium | 15 mg/L | 15 mg/L | 0 |
| Sodium | 26 mg/L | 26 mg/L | 0 |
| Potassium | 2.6 mg/L | 2.7 mg/L | 4 |

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017828**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017828**

| Sample | Analyte | Modified Final Concentration | A or P |
|--------------|-----------------------|------------------------------|--------|
| Dup-3-2Q2020 | Arsenic | 1.0U ug/L | A |
| MW-12-3 | Arsenic Chromium | 1.7U ug/L 1.0U ug/L | A |
| Dup-4-2Q2020 | Arsenic Chromium | 1.9U ug/L 1.4U ug/L | A |
| MW-12-1 | Arsenic Chromium | 0.79U ug/L 1.6U ug/L | A |
| MW-23-1 | Chromium | 1.4U ug/L | A |
| EB-9-061920 | Chromium Magnesium | 0.60U ug/L 0.026U mg/L | A |
| MW-12-2 | Chromium | 1.7U ug/L | A |
| SB-2-061920 | Magnesium | 0.025U mg/L | A |

LDC #: 48681D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 01/12/2020

SDG #: 2017828

Level III/IV

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: DM

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|-------|--|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | OW | |
| VI. | Field Blanks | SW | EB=7 SB=12 |
| VII. | Matrix Spike/Matrix Spike Duplicates | SW | 13.4 Ca > 4x Spike |
| VIII. | Duplicate sample analysis | A | |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | ICS |
| XI. | Field Duplicates | SW | (3,6) (8,9) |
| XII. | Internal Standard (ICP-MS) | A | |
| XIII. | Sample Result Verification | A | Not reviewed for Level III validation. |
| XIV. | Overall Assessment of Data | A | |

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-23-5 | 2017828-02 | Water | 06/19/20 |
| 2 | MW-23-4 | 2017828-03 | Water | 06/19/20 |
| 3 | MW-23-3 | 2017828-04 | Water | 06/19/20 |
| 4 | MW-23-2** | 2017828-05** | Water | 06/19/20 |
| 5 | MW-23-1 | 2017828-06 | Water | 06/19/20 |
| 6 | Dup-3-2Q2020 | 2017828-07 | Water | 06/19/20 |
| 7 | EB-9-061920 | 2017828-08 | Water | 06/19/20 |
| 8 | MW-12-3 | 2017828-09 | Water | 06/19/20 |
| 9 | Dup-4-2Q2020 | 2017828-10 | Water | 06/19/20 |
| 10 | MW-12-2 | 2017828-11 | Water | 06/19/20 |
| 11 | MW-12-1 | 2017828-12 | Water | 06/19/20 |
| 12 | SB-2-061920 | 2017828-13 | Water | 06/19/20 |
| 13 | MW-23-2MS | 2017828-05MS | Water | 06/19/20 |
| 14 | MW-23-2MSD | 2017828-05MSD | Water | 06/19/20 |
| 15 | MW-23-2DUP | 2017828-05DUP | Water | 06/19/20 |

LDC #: 48681D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/10/2020

SDG #: 2017828

Level III/IV

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

| | Client ID | Lab ID | Matrix | Date |
|----|-----------|---------------|--------|---------|
| 16 | 12 DUP | 2017828-13DUP | Water | 6/19/20 |
| 17 | 12 MS | ↓ MS | ↓ | ↓ |
| 18 | 12 MSD | ↓ MSD | ↓ | ↓ |

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. | / | | / | DTM |
| Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $< 5X$ the RL. | / | | | |
| VII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |
| Was an LCS analyzed per extraction batch? | / | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils? | / | | | |

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

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

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

Soil preparation factor applied: _____

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 3-11

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|-----|-----|------|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | 6 | 8 | 9 | 11 | | | | | | | |
| As | | | 0.77300 | 3.865 | 1.0 | 1.7 | 1.9 | 0.79 | | | | | | | |

Sample Concentration units, unless otherwise noted: ug/l Associated Samples: 2-3,5-12

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|------|-----|-----|-----|-----|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | 5 | 7 | 8 | 9 | 10 | 11 | | | | | |
| Cr | | | 0.62100 | 3.105 | 1.4 | 0.60 | 1.0 | 1.4 | 1.7 | 1.6 | | | | | |

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

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (ug/l) | Action Level | NO QUAL | | | | | | | | | | |
| Ca | 0.014790 | | | 0.07395 | | | | | | | | | | | |
| Mg | 0.022945 | | | 0.11473 | | | | | | | | | | | |
| Na | 0.051150 | | | 0.25575 | | | | | | | | | | | |

Sample Concentration units, unless otherwise noted: mg/l Associated Samples: 3-12

| | | | | | Sample Identification | | | | | | | | | | |
|---------|--------------------------------|--------------------------------|-------------------------------------|--------------|-----------------------|-------|--|--|--|--|--|--|--|--|--|
| Analyte | Maximum PB ^a (mg/l) | Maximum PB ^a (ug/l) | Maximum ICB/CCB ^a (mg/l) | Action Level | 7 | 12 | | | | | | | | | |
| Mg | | | 0.024463 | 0.12232 | 0.026 | 0.025 | | | | | | | | | |

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

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

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

| Analyte | Concentration (ug/L) | | RPD |
|------------------|----------------------|-----|-----|
| | 3 | 6 | |
| Iron | 120 | 130 | 8 |
| Chromium | 3.2 | 3.5 | 9 |
| Arsenic | 0.70U | 3.5 | NC |
| Calcium (mg/L) | 57 | 54 | 5 |
| Magnesium (mg/L) | 19 | 17 | 11 |
| Sodium (mg/L) | 34 | 31 | 9 |
| Potassium (mg/L) | 2.0 | 1.9 | 5 |

| Analyte | Concentration (ug/L) | | RPD |
|------------------|----------------------|-----|-----|
| | 8 | 9 | |
| Iron | 30U | 35 | NC |
| Arsenic | 1.7 | 1.9 | 11 |
| Chromium | 1.0 | 1.4 | 33 |
| Calcium (mg/L) | 60 | 58 | 3 |
| Magnesium (mg/L) | 15 | 15 | 0 |
| Sodium (mg/L) | 26 | 26 | 0 |
| Potassium (mg/L) | 2.6 | 2.7 | 4 |

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 | |
| N | ICP (Low Level calibration) | | | | | | |
| N | ICP/MS (Low Level calibration) | | | | | | |
| ICV | ICP (Initial calibration) | Fe | 10.380 mg/L | 10.000 mg/L | 104 | 104 | Y |
| ICV | ICP/MS (Initial calibration) 6/24 | Cr | 49.791 | 50.000 | 99.6 | 99.6 | Y |
| N | CVAA (Initial calibration) | | | | | | |
| CCV 3 | ICP (Continuing calibration) | Mg | 50.186 mg/L | 50.000 mg/L | 100 | 100 | Y |
| CCV 1 | ICP/MS (Continuing calibration) | Pb | 100.77 | 100.00 | 101 | 101 | Y |
| N | CVAA (Continuing calibration) | | | | | | |

| ICP-MS TUNE | Calculation | Mass | Actual (Mean Counts / Axis) | Required (Counts / Axis) | Recalculated %RSD | Acceptable (Y/N) |
|-------------|-------------|------|-----------------------------|--------------------------|-------------------|------------------|
| 6/25/2020 | Mass Axis | 115 | 114.9 | ± 0.1 AMU | NA | Y |
| ↓ | %RSD | 24 | 1.9 | ≤ 5% RSD | 1.9 | Y |

Comments:

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

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

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

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

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

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

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

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

| Sample ID | Type of Analysis | Element | Found / S / I (units) | True / D / SDR (units) | Recalculated | Reported | Acceptable (Y/N) |
|-----------------------|---------------------------|---------|-------------------------|------------------------|---------------|---------------|------------------|
| | | | | | %R / RPD / %D | %R / RPD / %D | |
| IFB | ICP interference check | Mg | 518.860 mg/L | 500.00 mg/L | 104 | 104 | Y |
| LCS | Laboratory control sample | Pb | 97.402 ug/L | 100.00 ug/L | 97.4 | 97.4 | Y |
| ^{DM} 1317 | Matrix spike | As | (SSR-SR) 109.02 ug/L | 100.00 ug/L | 109 | 109 | Y |
| IS | Duplicate | Fe | 92.284 ug/L | 95.019 ug/L | 290 | 292 | Y |
| N | ICP serial dilution | | | | | | |

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 10, 2020

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017828

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-23-5 | 2017828-02 | Water | 06/19/20 |
| MW-23-4 | 2017828-03 | Water | 06/19/20 |
| MW-23-3 | 2017828-04 | Water | 06/19/20 |
| MW-23-2** | 2017828-05** | Water | 06/19/20 |
| MW-23-1 | 2017828-06 | Water | 06/19/20 |
| Dup-3-2Q2020 | 2017828-07 | Water | 06/19/20 |
| EB-9-061920 | 2017828-08 | Water | 06/19/20 |
| MW-12-3 | 2017828-09 | Water | 06/19/20 |
| Dup-4-2Q2020 | 2017828-10 | Water | 06/19/20 |
| MW-12-2 | 2017828-11 | Water | 06/19/20 |
| MW-12-1 | 2017828-12 | Water | 06/19/20 |
| SB-2-061920 | 2017828-13 | Water | 06/19/20 |
| MW-23-2MS | 2017828-05MS | Water | 06/19/20 |
| MW-23-2MSD | 2017828-05MSD | Water | 06/19/20 |
| MW-23-2DUP | 2017828-05DUP | Water | 06/19/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 3220B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|--|---------|--|---|-----------------|--------|
| MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 | pH | 4 days | 48 hours | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|----------|-----------------------|--|
| PB (prep blank) | Chloride | 0.14200 mg/L | MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 |

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|------------------------------|------------------------------|--|
| ICB/CCB | Hexavalent chromium | 0.048000 ug/L | MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 |
| ICB/CCB | Hexavalent chromium Chloride | 0.048000 mg/L 0.1400 mg/L | MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 |
| PB (prep blank) | Chloride Sulfate | 0.20200 mg/L 0.25600 mg/L | MW-12-1 SB-2-061920 |
| ICB/CCB | Hexavalent chromium | 0.048000 ug/L | MW-12-1 SB-2-061920 |
| ICB/CCB | Chloride Sulfate | 0.219 mg/L 0.30600 mg/L | MW-12-1 SB-2-061920 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-------------|--|---|--|
| MW-23-5 | Hexavalent chromium | 0.000039 mg/L | 0.000039U mg/L |
| EB-9-061920 | Hexavalent chromium | 0.000032 mg/L | 0.000032U mg/L |
| MW-12-2 | Hexavalent chromium | 0.000083 mg/L | 0.000083U mg/L |
| SB-2-061920 | Hexavalent chromium Chloride Sulfate | 0.000056 mg/L 0.19 mg/L 0.26 mg/L | 0.000056U mg/L 0.19U mg/L 0.26U mg/L |

V. Field Blanks

Sample EB-9-061920 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|---|---|
| EB-9-061920 | pH Total dissolved solids Hexavalent chromium | 4.49 units 3.3 mg/L 0.000032 mg/L |

Sample SB-2-061920 was identified as a source blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|--|--|
| SB-2-061920 | pH Total dissolved solids Hexavalent chromium Chloride Nitrate as N Sulfate | 4.39 mg/L 4.0 mg/L 0.000056 mg/L 0.19 mg/L 0.024 mg/L 0.26 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-23-3 and Dup-3-2Q2020 and samples MW-12-3 and Dup-4-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|------------------------|---------------|--------------|-----|
| | MW-23-3 | Dup-3-2Q2020 | |
| pH | 7.89 units | 7.91 units | 0 |
| Total dissolved solids | 370 mg/L | 370 mg/L | 0 |
| Hexavalent chromium | 0.0023 mg/L | 0.0029 mg/L | 23 |
| Chloride | 41 mg/L | 41 mg/L | 0 |
| Nitrate as N | 10 mg/L | 10 mg/L | 0 |
| Sulfate | 37 mg/L | 37 mg/L | 0 |
| Perchlorate | 3.7 ug/L | 3.2 ug/L | 14 |
| Total alkalinity | 140 mg/L | 140 mg/L | 0 |
| Bicarbonate alkalinity | 180 mg/L | 140 mg/L | 25 |

| Analyte | Concentration | | RPD |
|------------------------|---------------|--------------|-----|
| | MW-12-3 | Dup-4-2Q2020 | |
| pH | 8.09 units | 8.02 units | 1 |
| Total dissolved solids | 320 mg/L | 320 mg/L | 0 |
| Hexavalent chromium | 0.00051 mg/L | 0.00054 mg/L | 6 |
| Chloride | 15 mg/L | 15 mg/L | 0 |
| Nitrate as N | 1.3 mg/L | 1.3 mg/L | 0 |
| Sulfate | 35 mg/L | 35 mg/L | 0 |
| Perchlorate | 4.0 ug/L | 4.4 ug/L | 10 |
| Total alkalinity | 190 mg/L | 190 mg/L | 0 |
| Bicarbonate alkalinity | 440 mg/L | 230 mg/L | 63 |

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to technical holding time, data were qualified as estimated in twelve samples.

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

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017828**

| Sample | Analyte | Flag | A or P | Reason |
|--|---------|-----------------|--------|-------------------------|
| MW-23-5 MW-23-4 MW-23-3 MW-23-2** MW-23-1 Dup-3-2Q2020 EB-9-061920 MW-12-3 Dup-4-2Q2020 MW-12-2 MW-12-1 SB-2-061920 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017828**

| Sample | Analyte | Modified Final Concentration | A or P |
|-------------|--|--|--------|
| MW-23-5 | Hexavalent chromium | 0.000039U mg/L | A |
| EB-9-061920 | Hexavalent chromium | 0.000032U mg/L | A |
| MW-12-2 | Hexavalent chromium | 0.000083U mg/L | A |
| SB-2-061920 | Hexavalent chromium Chloride Sulfate | 0.000056U mg/L 0.19U mg/L 0.26U mg/L | A |

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW | EB=7 SB=12 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | |
| VII. | Duplicate sample analysis | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | SW | (3,6)(8,9) |
| X. | Sample result verification | A | Not reviewed for Level III validation. |
| XI | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-23-5 | 2017828-02 | Water | 06/19/20 |
| 2 | MW-23-4 | 2017828-03 | Water | 06/19/20 |
| 3 | MW-23-3 | 2017828-04 | Water | 06/19/20 |
| 4 | MW-23-2** | 2017828-05** | Water | 06/19/20 |
| 5 | MW-23-1 | 2017828-06 | Water | 06/19/20 |
| 6 | Dup-3-2Q2020 | 2017828-07 | Water | 06/19/20 |
| 7 | EB-9-061920 | 2017828-08 | Water | 06/19/20 |
| 8 | MW-12-3 | 2017828-09 | Water | 06/19/20 |
| 9 | Dup-4-2Q2020 | 2017828-10 | Water | 06/19/20 |
| 10 | MW-12-2 | 2017828-11 | Water | 06/19/20 |
| 11 | MW-12-1 | 2017828-12 | Water | 06/19/20 |
| 12 | SB-2-061920 | 2017828-13 | Water | 06/19/20 |
| 13 | MW-23-2MS | 2017828-05MS | Water | 06/19/20 |
| 14 | MW-23-2MSD | 2017828-05MSD | Water | 06/19/20 |
| 15 | MW-23-2DUP | 2017828-05DUP | Water | 06/19/20 |
| 16 | | | | |

Method: Inorganics (EPA Method)

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

VALIDATION FINDINGS CHECKLIST

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

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Inorganics, EPA Method See Cover

Blank units: mg/L **Associated sample units:**

Sampling date: 6/19/2020 Soil factor applied NA

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

| Analyte | Blank ID | Action Limit | Sample Identification | | | | | | | |
|---------------------|----------|--------------|-----------------------|--|--|--|--|--|--|--|
| | 7 | 12 | No Qualifiers | | | | | | | |
| pH(pH units) | 4.49 | 4.39 | | | | | | | | |
| TDS | 3.3 | 4.0 | | | | | | | | |
| Hexavalent Chromium | 0.000032 | 0.000056 | | | | | | | | |
| Chloride | | 0.19 | | | | | | | | |
| NO3-N | | 0.024 | | | | | | | | |
| Sulfate | | 0.26 | | | | | | | | |
| | | | | | | | | | | |

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".

Inorganics, Method See Cover

| Analyte | Concentration (mg/L) | | RPD |
|------------------------|----------------------|--------|-----|
| | 3 | 6 | |
| pH (pH units) | 7.89 | 7.91 | 0 |
| TDS | 370 | 370 | 0 |
| Hexavalent Chromium | 0.0023 | 0.0029 | 23 |
| Chloride | 41 | 41 | 0 |
| Nitrate-N | 10 | 10 | 0 |
| Sulfate | 37 | 37 | 0 |
| Perchlorate (ug/L) | 3.7 | 3.2 | 14 |
| Total Alkalinity | 140 | 140 | 0 |
| Bicarbonate Alkalinity | 180 | 140 | 25 |

| Analyte | Concentration (mg/L) | | RPD |
|------------------------|----------------------|---------|-----|
| | 8 | 9 | |
| pH (pH units) | 8.09 | 8.02 | 1 |
| TDS | 320 | 320 | 0 |
| Hexavalent Chromium | 0.00051 | 0.00054 | 6 |
| Chloride | 15 | 15 | 0 |
| Nitrate-N | 1.3 | 1.3 | 0 |
| Sulfate | 35 | 35 | 0 |
| Perchlorate (ug/L) | 4.0 | 4.4 | 10 |
| Total Alkalinity | 190 | 190 | 0 |
| Bicarbonate Alkalinity | 440 | 230 | 63 |

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Perchlorate was recalculated. Calibration date: 6/29/2020

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

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

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

| Type of analysis | Analyte | Standard | Conc. (mg/L) | Abs | Recalculated | Reported | Acceptable (Y/N) |
|-------------------------------|---------|----------|--------------|-------|---------------------|---------------------|---------------------|
| | | | | | r or r ² | r or r ² | |
| Initial calibration | Cr6 | s1 | 0.193 | 0.023 | 1.000000 | NR | Y |
| | | s2 | 1.96 | 0.251 | | | |
| | | s3 | 10.033 | 1.293 | | | |
| | | s4 | 24.817 | 3.2 | | | |
| | | s5 | 50.198 | 6.475 | | | |
| ICV Calibration verification | Cl | 49.893 | 50 | | 99.8 | 99.8 | Y |
| CCV2 Calibration verification | SO4 | 101.42 | 100 | | 101 | 101 | Y |
| ICV Calibration verification | ClO4 | 10.178 | 10 | | 102 | 102 | Y |

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

LDC #: 40681049

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: DTM
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:

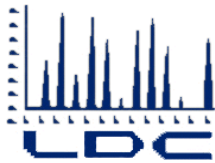
$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

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 | |
| LC8 | Laboratory control sample | Cr6 | 0.019309mg/L | 0.020222mg/L | 96.5 | 96.5 | Y |
| 13 | Matrix spike sample | NO3-N | (SSR-SR) 5.376mg/L | 5.0505mg/L | 106 | 106 | Y |
| 15 | Duplicate sample | TDS | 845mg/L | 825mg/L | 2.4 | 2.4 | Y |

Comments: _____



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

August 20, 2020

SUBJECT: NASA JPL, 2Q2020, Data Validation

Dear Mr. Conner,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on July 28, 2020. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #48752:

| <u>SDG #</u> | <u>Fraction</u> |
|---|---|
| 2017619, 2017925, 2018049 2018201, 2018328 | Volatiles, Semivolatiles, 1,4-Dioxane, Metals, Wet Chemistry |

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

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

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

Sincerely,

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 14, 2020

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017619

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| TB-7-061720 | 20176419-01 | Water | 06/17/20 |
| MW-22-5 | 20176419-02 | Water | 06/17/20 |
| MW-22-4 | 20176419-03 | Water | 06/17/20 |
| MW-22-3 | 20176419-04 | Water | 06/17/20 |
| MW-22-2** | 20176419-05** | Water | 06/17/20 |
| MW-22-1 | 20176419-06 | Water | 06/17/20 |
| EB-7-061720 | 20176419-07 | Water | 06/17/20 |
| MW-24-5 | 20176419-08 | Water | 06/17/20 |
| MW-24-2** | 20176419-09** | Water | 06/17/20 |
| MW-24-1 | 20176419-10 | Water | 06/17/20 |
| MW-22-2MS | 20176419-05MS | Water | 06/17/20 |
| MW-22-2MSD | 20176419-05MSD | Water | 06/17/20 |
| MW-24-2MS | 20176419-09MS | Water | 06/17/20 |
| MW-24-2MSD | 20176419-09MSD | Water | 06/17/20 |

**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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/18/20 | Pentachloroethane | 76.0 | All samples in SDG 2017619 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|-------------------|------|--------------------|----------------------|--------|
| 06/19/20 (19JUN03) | Pentachloroethane | 53.6 | MW-22-2** | UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|---|----------------------|---|--|--------|
| 06/19/20 (19JUN32) | trans-1,4-Dichloro-2-butene Methyl iodide Pentachloroethane | 32.1 64.7 85.3 | TB-7-061720 MW-22-5 MW-22-4 MW-22-3 MW-22-1 EB-7-061720 MW-24-5 MW-24-2** MW-24-1 | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P |

V. Laboratory Blanks

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

VI. Field Blanks

Sample TB-7-061720 was identified as a trip blank. No contaminants were found.

Sample EB-7-061720 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2017619

| Sample | Compound | Flag | A or P | Reason |
|--|---|--|--------|---------------------------------------|
| TB-7-061720 MW-22-5 MW-22-4 MW-22-3 MW-22-2** MW-22-1 EB-7-061720 MW-24-5 MW-24-2** MW-24-1 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| MW-22-2** | Pentachloroethane | UJ (all non-detects) | P | Continuing calibration (%D) |
| TB-7-061720 MW-22-5 MW-22-4 MW-22-3 MW-22-1 EB-7-061720 MW-24-5 MW-24-2** MW-24-1 | 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, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017619

No Sample Data Qualified in this SDG

LDC #: 48752A1a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/17/20

SDG #: 2017619

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 | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A MW | RSD ≤ 20%, Y ² CV ≤ 30% |
| IV. | Continuing calibration | MW | CV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB=1, EB=7 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | D | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | A | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|----------------|--------|----------|
| 1 | TB-7-061720 | 20176419-01 | Water | 06/17/20 |
| 2 | MW-22-5 | 20176419-02 | Water | 06/17/20 |
| 3 | MW-22-4 | 20176419-03 | Water | 06/17/20 |
| 4 | MW-22-3 | 20176419-04 | Water | 06/17/20 |
| 5 | MW-22-2** | 20176419-05** | Water | 06/17/20 |
| 6 | MW-22-1 | 20176419-06 | Water | 06/17/20 |
| 7 | EB-7-061720 | 20176419-07 | Water | 06/17/20 |
| 8 | MW-24-5 | 20176419-08 | Water | 06/17/20 |
| 9 | MW-24-2** | 20176419-09** | Water | 06/17/20 |
| 10 | MW-24-1 | 20176419-10 | Water | 06/17/20 |
| 11 | MW-22-2MS | 20176419-05MS | Water | 06/17/20 |
| 12 | MW-22-2MSD | 20176419-05MSD | Water | 06/17/20 |
| 13 | MW-24-2MS | 20176419-09MS | Water | 06/17/20 |
| 14 | MW-24-2MSD | 20176419-09MSD | Water | 06/17/20 |

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

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

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-----------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (initial) | Average RRF (initial) | %RSD | %RSD |
| 1 | ICAL (MS-V5) | 6/18/20 | K (1st internal standard) | 0.6723501 | 0.67235 | 0.6584789 | 0.6584789 | 2.271494 | 2.272 |
| | | | S (2nd internal standard) | 0.3480862 | 0.3480861 | 0.3443647 | 0.3443647 | 4.923863 | 4.924 |
| | | | EE (3rd internal standard) | 1.866471 | 1.866471 | 1.794106 | 1.794106 | 5.729535 | 5.729 |
| | | | (4th internal standard) | | | | | | |
| 2 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 3 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 4 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (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 | 19JUN02 | 6/19/20 | K (1st internal standard) | 0.6584789 | 0.7011749 | 0.7011749 | 6.5 | 6.5 |
| | | | S (2nd internal standard) | 0.3443647 | 0.3454481 | 0.345448 | 0.3 | 0.3 |
| | | | EE (3rd internal standard) | 1.794106 | 1.744786 | 1.744786 | 2.7 | 2.7 |
| | | | (4th internal standard) | | | | | |
| 2 | 19JUN31 | 6/19/20 | K (1st internal standard) | 0.6584789 | 0.70635 | 0.70635 | 7.3 | 7.3 |
| | | | S (2nd internal standard) | 0.3443647 | 0.3410342 | 0.3410342 | 1.0 | 1.0 |
| | | | EE (3rd internal standard) | 1.794106 | 1.678582 | 1.678582 | 6.4 | 6.4 |
| | | | (4th internal standard) | | | | | |
| 3 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 4 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (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 #: 187219

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 9

| | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|---------------------------------------|------------------|-----------------|------------------|------------------|--------------------|
| | | | Reported | Recalculated | |
| Toluene-d8 | 10.0 | 9.84 | 98.4 | 98.4 | |
| Bromofluorobenzene | ↓ | 9.96 | 99.6 | 99.6 | |
| 1,2-Dichlorobenzene-d4 <u>1,2-DCE</u> | ↓ | 11.37 | 114 | 114 | |
| 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 # 403219

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

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

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 11/12

| Compound | Spike Added | | Sample Concentration | Spiked Sample Concentration | | Matrix Spike | | Matrix Spike Duplicate | | MS/MSD | |
|--------------------|-------------|------|----------------------|-----------------------------|-------|------------------|--------|------------------------|--------|----------|--------------|
| | MS | MSD | | MS | MSD | Percent Recovery | | Percent Recovery | | RPD | |
| | | | | | | Reported | Recalc | Reported | Recalc | Reported | Recalculated |
| 1,1-Dichloroethene | 25.0 | 25.0 | ND | 27.47 | 27.36 | 110 | 110 | 109 | 109 | 0.401 | 0.401 |
| Trichloroethene | ↓ | ↓ | 0.25 | 25.74 | 25.14 | 102 | 102 | 99.6 | 99.6 | 2.36 | 2.36 |
| Benzene | ↓ | ↓ | ND | 26.090 | 26.02 | 104 | 104 | 104 | 104 | 0.269 | 0.269 |
| Toluene | ↓ | ↓ | ↓ | 24.640 | 24.17 | 98.6 | 98.6 | 96.7 | 96.7 | 1.93 | 1.93 |
| Chlorobenzene | ↓ | ↓ | ↓ | 23.30 | 23.79 | 93.2 | 93.2 | 95.2 | 95.2 | 2.08 | 2.08 |

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

LDC #: AST2A19

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: 3080563-PD

| 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 | 25.0 | NA | 26.83 | NA | 107 | 107 | | | | |
| Trichloroethene | ↓ | ↓ | 26.96 | | 108 | 108 | | | | |
| Benzene | ↓ | ↓ | 25.69 | | 103 | 103 | | | | |
| Toluene | ↓ | ↓ | 24.51 | | 98 | 98 | | | | |
| Chlorobenzene | ↓ | ↓ | 22.85 | | 91.4 | 91.4 | | | | |

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, 2Q2020

LDC Report Date: August 13, 2020

Parameters: 1,4-Dioxane

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017619

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-24-1 | 20176419-10 | Water | 06/17/20 |

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 15.0%.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

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

V. Laboratory Blanks

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

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

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

VIII. Matrix Spike/Matrix Spike Duplicates

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

IX. Laboratory Control Samples

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

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

NASA JPL, 2Q2020
1,4-Dioxane - Data Qualification Summary - SDG 2017619

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 2017619

No Sample Data Qualified in this SDG

LDC #: 48752A2c

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017619

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/12/00

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: F7

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

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

| | Validation Area | | Comments |
|-------|--|------|-----------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A, A | RSD ≤ 15% . 1CV ≤ 20% |
| IV. | Continuing calibration | A | CV ≤ 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LC |
| X. | Field duplicates | N | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|-------------|--------|----------|
| 1 | MW-24-1 | 20176419-10 | Water | 06/17/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Metals

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017619

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-22-5 | 20176419-02 | Water | 06/17/20 |
| MW-22-4 | 20176419-03 | Water | 06/17/20 |
| MW-22-3 | 20176419-04 | Water | 06/17/20 |
| MW-22-2** | 20176419-05** | Water | 06/17/20 |
| MW-22-1 | 20176419-06 | Water | 06/17/20 |
| EB-7-061720 | 20176419-07 | Water | 06/17/20 |
| MW-24-5 | 20176419-08 | Water | 06/17/20 |
| MW-24-2** | 20176419-09** | Water | 06/17/20 |
| MW-24-1 | 20176419-10 | Water | 06/17/20 |
| MW-22-2MS | 20176419-05MS | Water | 06/17/20 |
| MW-22-2MSD | 20176419-05MSD | Water | 06/17/20 |
| MW-22-2DUP | 20176419-05DUP | Water | 06/17/20 |
| MW-24-2MS | 20176419-09MS | Water | 06/17/20 |
| MW-24-2MSD | 20176419-09MSD | Water | 06/17/20 |
| MW-24-2DUP | 20176419-09DUP | Water | 06/17/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------------------|--------------------------|----------------------|
| ICB/CCB | Chromium Arsenic | 0.523 ug/L 0.705 ug/L | MW-24-2** |
| PB (prep blank) | Calcium | 0.018126 mg/L | MW-22-2** |
| ICB/CCB | Potassium | 0.11489 mg/L | MW-22-5 MW-24-2** |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-----------|---------------------|------------------------|------------------------------|
| MW-24-2** | Chromium Arsenic | 1.8 ug/L 1.9 ug/L | 1.8U ug/L 1.9U ug/L |

VI. Field Blanks

Sample EB-7-061720 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|-------------------------------|-------------------------------------|
| EB-7-061720 | Chromium Calcium Sodium | 1.4 ug/L 0.047 mg/L 0.23 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

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

| Spike ID (Associated Samples) | Analyte | MS (%R) (Limits) | MSD (%R) (Limits) | Flag | A or P |
|----------------------------------|---------|---------------------|----------------------|-----------------|--------|
| MW-22-2MS/MSD (MW-22-2**) | Sodium | 129 (75-125) | 129 (75-125) | J (all detects) | A |

Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

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

X. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

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

XIII. Sample Result Verification

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

XIV. Overall Assessment of Data

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

Due to MS/MSD %R, data were qualified as estimated in one sample.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017619**

| Sample | Analyte | Flag | A or P | Reason |
|-----------|---------|-----------------|--------|--|
| MW-22-2** | Sodium | J (all detects) | A | Matrix spike/Matrix spike duplicate (%R) |

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017619**

| Sample | Analyte | Modified Final Concentration | A or P |
|-----------|---------------------|------------------------------|--------|
| MW-24-2** | Chromium Arsenic | 1.8U ug/L 1.9U ug/L | A |

LDC #: 48752A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

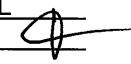
SDG #: 2017619

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

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

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

| | Validation Area | | Comments |
|-------|--|-----|--|
| I. | Sample receipt/Technical holding times | A/A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | EB=6 |
| VII. | Matrix Spike/Matrix Spike Duplicates | SW | (10,11), (13,14) |
| VIII. | Duplicate sample analysis | A | 12,15 |
| IX. | Serial Dilution | A | |
| X. | Laboratory control samples | A | LCS/LCSD |
| 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 sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-22-5 | 2017619-02 | Water | 06/17/20 |
| 2 | MW-22-4 | 2017619-03 | Water | 06/17/20 |
| 3 | MW-22-3 | 2017619-04 | Water | 06/17/20 |
| 4 | MW-22-2** | 2017619-05** | Water | 06/17/20 |
| 5 | MW-22-1 | 2017619-06 | Water | 06/17/20 |
| 6 | EB-7-061720 | 2017619-07 | Water | 06/17/20 |
| 7 | MW-24-5 | 2017619-08 | Water | 06/17/20 |
| 8 | MW-24-2** | 2017619-09** | Water | 06/17/20 |
| 9 | MW-24-1 | 2017619-10 | Water | 06/17/20 |
| 10 | MW-22-2MS | 2017619-05MS | Water | 06/17/20 |
| 11 | MW-22-2MSD | 2017619-05MSD | Water | 06/17/20 |
| 12 | MW-22-2DUP | 2017619-05DUP | Water | 06/17/20 |
| 13 | MW-24-2MS | 2017619-09MS | Water | 06/17/20 |
| 14 | MW-24-2MSD | 2017619-09MSD | Water | 06/17/20 |
| 15 | MW-24-2DUP | 2017619-09DUP | Water | 06/17/20 |

| METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000) | | | | |
|--|-----|----|----|--------------|
| Validation Area | Yes | No | NA | Comments |
| I. Technical holding times | | | | |
| Were all technical holding times met? | X | | | |
| Were all water samples preserved to a pH of <2. | X | | | |
| II. ICP-MS Tune | | | | |
| Were mass resolutions within 0.1 amu for all isotopes in the tuning solution? | X | | | |
| Were %RSDs of isotopes in the tuning solution ≤5%? | X | | | |
| III. Calibration | | | | |
| Were all instruments calibrated daily? | X | | | |
| Were the proper standards used? | X | | | |
| Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits? | X | | | |
| Were the low level standard checks within 70-130%? | | | X | not provided |
| Were all initial calibration correlation coefficients within limits as specified by the method? | X | | | |
| IV. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | X | | | |
| Was there contamination in the method blanks? | X | | | |
| Was there contamination in the initial and continuing calibration blanks? | X | | | |
| V. Interference Check Sample | | | | |
| Were the interference check samples performed daily? | X | | | |
| Were the AB solution recoveries within 80-120%? | X | | | |
| VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates | | | | |
| Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.) | | X | | |
| Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits? | X | | | |
| VII. Laboratory Control Samples | | | | |
| SDG? | X | | | |

| | | | | |
|---|------------|-----------|-----------|-----------------|
| Were the LCS recoveries and RPDs (if applicable) within QC limits? | X | | | |
| METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000) | | | | |
| Validation Area | Yes | No | NA | Comments |
| VIII. Internal Standards | | | | |
| Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits? | X | | | |
| If the recoveries were outside the limits, was a reanalysis performed? | | | X | |
| IX. Serial Dilution | | | | |
| Were all percent differences <10%? | X | | | |
| Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data. | | X | | |
| X. Sample Result Verification | | | | |
| Were all reporting limits adjusted to reflect sample dilutions? | X | | | |
| Were all soil samples dry weight corrected? | | | X | |
| XI. Overall Assessment of Data | | | | |
| Was the overall assessment of the data found to be acceptable? | X | | | |
| XII. Field Duplicates | | | | |
| Were field duplicates identified in this SDG? | | X | | |
| Were target analytes detected in the field duplicates? | | | X | |
| XIII. Field Blanks | | | | |
| Were field blanks identified in this SDG? | X | | | |
| Were target analytes detected in the field blanks? | X | | | |

All elements are applicable to each sample as noted below.

| Sample ID | Target Analyte List |
|-----------|-------------------------|
| 1 to 9 | Fe, As,Cr,Pb,Ca,Mg,Na,K |
| | |
| | |
| QC | |
| 10 to 15 | Fe, As,Cr,Pb,Ca,Mg,Na,K |
| | |
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Analysis Method

| | |
|--------|---------------|
| ICP | Fe,Ca,Mg,Na,K |
| ICP-MS | As,Cr,Pb |
| CVAA | |

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

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted:

Associated Samples: 8

| | | | | Sample Identification | | | | | | | | |
|---------|------------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| Analyte | PB (units) | Maximum ICB/CCB (ug/L) | Action Level | | | | | | | | | |
| | | | | 8 | | | | | | | | |
| Cr | | 0.523 | 2.615 | 1.8 | | | | | | | | |
| As | | 0.705 | 3.525 | 1.9 | | | | | | | | |

Sample Concentration, unless otherwise noted:

Associated Samples: 4

| | | | | Sample Identification | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | |
| Ca | 0.018126 | | 0.09063 | | | | | | | | | |
| | | | | | | | | | | | | |

Sample Concentration, unless otherwise noted:

Associated Samples: 1,8

| | | | | Sample Identification | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | |
| K | | 0.11489 | 0.57445 | | | | | | | | | |
| | | | | | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

Field Blanks

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

Blank units: ug/L, mg/L

Associated sample units: ug/L, mg/L

Sampling Date: 6/17/20

Associated Samples: none

| | | | Sample Identification | | | | | | | | | | |
|-----------|----------|------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Blank ID | Blank Conc | Action Level | | | | | | | | | | |
| Cr (ug/L) | 6 | 1.4 | | | | | | | | | | | |
| Ca (mg/L) | 6 | 0.047 | | | | | | | | | | | |
| Na (mg/L) | 6 | 0.23 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The action level, when applicable, is established at 5X the highest concentration.

VALIDATION FINDINGS CHECKLIST
Calibration Calculation Verification

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

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

| Standard ID | Type of Analysis | Element | Found | True | Recalculated %R | Reported %R | Acceptable (Y/N) |
|-------------|------------------|----------|---------|------|-----------------|-------------|------------------|
| ICV | ICP | Na(mg/L) | 50.38 | 50 | 100.76 | 101 | Y |
| CCV | ICP | Fe(mg/L) | 10.6 | 10 | 106 | 106 | Y |
| LLCC | ICP | | | | | | |
| ICSAB | ICP | Mg(mg/L) | 535.4 | 500 | 107.08 | 107 | Y |
| ICV | ICP-MS | As(ug/L) | 121.921 | 125 | 97.5368 | 97.5 | Y |
| CCV | ICP-MS | Cr(ug/L) | 39.955 | 40 | 99.8875 | 99.9 | Y |
| LLCC | ICP-MS | | | | | | |
| ICSAB | ICP-MS | | | | | | |
| ICV | CVAA | | | | | | |
| CCV | CVAA | | | | | | |

| ICP-MS Tune | QC Parameter | Mass | Actual | Required |
|-------------|--------------|--------|--------|-----------|
| | Mass Axis | 23.985 | 23.978 | ± 0.1 amu |
| | %RSD | 114.9 | 0.4 | ≤ 5% |

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

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

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

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

| Sample ID | Type of Analysis | Element | Found/S/I | True/D/SDR | Recalculated %R/RPD/%D | Reported %R/RPD/%D | Acceptable (Y/N) |
|-----------|------------------|---------|-----------|------------|---------------------------|-----------------------|------------------|
| LCS | LCS | Fe | 1105 | 1000 | 110.5 | 111 | Y |
| 10 | MS | Pb | 98.371 | 100 | 98.371 | 98.4 | Y |
| 12 | Duplicate | Mg | 25.46 | 24.623 | 3.34245153 | 3.33 | Y |
| 8 | PDS | As | 125.928 | 100 | 125.928 | 126 | Y |
| 5 | Serial dilution | Fe | 79.5 | 52 | 52.88461538 | 52.8 | Y |

VALIDATION FINDINGS CHECKLIST
Sample Calculation Verification

Reviewer:

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

Analytes were recalculated and verified using the following equation:

Concentration = (Result from raw data x Final volume x Dilution factor) / (Initial volume)

| Sample ID | Analyte | Raw Data | Dilution | Initial Weight/ Volume (ml) | Final Volume (ml) | Reported Result | Recalculated Result | Acceptable (Y/N) |
|-----------|-----------|----------|----------|--------------------------------|----------------------|-----------------|------------------------|---------------------|
| 4 | Cr (ug/L) | 1.44 | 1 | 50 | 50 | 1.4 | 1.44 | Y |
| 4 | Fe (ug/L) | 0.052 | 1 | 50 | 50 | 52 | 52 | Y |
| 4 | Ca (mg/L) | 64.03 | 1 | 50 | 50 | 64 | 64.03 | Y |
| 8 | As (ug/L) | 1.927 | 1 | 50 | 50 | 1.9 | 1.927 | Y |
| 8 | Fe (ug/L) | 0.0898 | 1 | 50 | 50 | 90 | 89.8 | Y |
| 8 | Na (mg/L) | 43.92 | 1 | 50 | 50 | 44 | 43.92 | Y |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017619

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-22-5 | 20176419-02 | Water | 06/17/20 |
| MW-22-4 | 20176419-03 | Water | 06/17/20 |
| MW-22-3 | 20176419-04 | Water | 06/17/20 |
| MW-22-2** | 20176419-05** | Water | 06/17/20 |
| MW-22-1 | 20176419-06 | Water | 06/17/20 |
| EB-7-061720 | 20176419-07 | Water | 06/17/20 |
| MW-24-5 | 20176419-08 | Water | 06/17/20 |
| MW-24-2** | 20176419-09** | Water | 06/17/20 |
| MW-24-1 | 20176419-10 | Water | 06/17/20 |
| MW-22-2MS | 20176419-05MS | Water | 06/17/20 |
| MW-22-2MSD | 20176419-05MSD | Water | 06/17/20 |
| MW-22-2DUP | 20176419-05DUP | Water | 06/17/20 |
| MW-24-2MS | 20176419-09MS | Water | 06/17/20 |
| MW-24-2MSD | 20176419-09MSD | Water | 06/17/20 |
| MW-24-2DUP | 20176419-09DUP | Water | 06/17/20 |
| MW-24-1MS | 20176419-10MS | Water | 06/17/20 |
| MW-24-1MSD | 20176419-10MSD | Water | 06/17/20 |
| MW-24-1DUP | 20176419-10DUP | Water | 06/17/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Orthophosphate as Phosphorus as EPA Method 365.1

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|---|---------|--|---|-----------------|--------|
| MW-22-5 MW-22-4 MW-22-3 MW-22-2** MW-22-1 EB-7-061720 MW-24-5 MW-24-2** MW-24-1 | pH | 6 days | 48 hours | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|--------------|-----------------------|---|
| PB (prep blank) | Nitrite as N | 0.018332 mg/L | MW-22-2** |
| ICB/CCB | Nitrite as N | 0.017832 mg/L | MW-22-5 MW-22-4 MW-22-3 MW-22-2** MW-22-1 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|-----------|--------------|------------------------|------------------------------|
| MW-22-5 | Nitrite as N | 0.015 mg/L | 0.015U mg/L |
| MW-22-4 | Nitrite as N | 0.016 mg/L | 0.016U mg/L |
| MW-22-3 | Nitrite as N | 0.016 mg/L | 0.016U mg/L |
| MW-22-2** | Nitrite as N | 0.016 mg/L | 0.016U mg/L |
| MW-22-1 | Nitrite as N | 0.014 mg/L | 0.014U mg/L |

V. Field Blanks

Sample EB-7-061720 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|-------------|---|---------------------------|
| EB-7-061720 | Total dissolved solids Hexavalent chromium | 3.3 mg/L 0.000038 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

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

XI. Overall Assessment of Data

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

Due to technical holding time, data were qualified as estimated in nine samples.

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

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

NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017619

| Sample | Analyte | Flag | A or P | Reason |
|---|---------|-----------------|--------|-------------------------|
| MW-22-5 MW-22-4 MW-22-3 MW-22-2** MW-22-1 EB-7-061720 MW-24-5 MW-24-2** MW-24-1 | pH | J (all detects) | P | Technical holding times |

NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017619

| Sample | Analyte | Modified Final Concentration | A or P |
|-----------|--------------|------------------------------|--------|
| MW-22-5 | Nitrite as N | 0.015U mg/L | A |
| MW-22-4 | Nitrite as N | 0.016U mg/L | A |
| MW-22-3 | Nitrite as N | 0.016U mg/L | A |
| MW-22-2** | Nitrite as N | 0.016U mg/L | A |
| MW-22-1 | Nitrite as N | 0.014U mg/L | A |

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A/SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW | EB=6 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | (10,11), (13,14), (16,17) |
| VII. | Duplicate sample analysis | A | 12,15,18 |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | N | |
| X. | Sample result verification | A | Not reviewed for Level III validation. |
| XI. | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-------------|---------------|--------|----------|
| 1 | MW-22-5 | 2017619-02 | Water | 06/17/20 |
| 2 | MW-22-4 | 2017619-03 | Water | 06/17/20 |
| 3 | MW-22-3 | 2017619-04 | Water | 06/17/20 |
| 4 | MW-22-2** | 2017619-05** | Water | 06/17/20 |
| 5 | MW-22-1 | 2017619-06 | Water | 06/17/20 |
| 6 | EB-7-061720 | 2017619-07 | Water | 06/17/20 |
| 7 | MW-24-5 | 2017619-08 | Water | 06/17/20 |
| 8 | MW-24-2** | 2017619-09** | Water | 06/17/20 |
| 9 | MW-24-1 | 2017619-10 | Water | 06/17/20 |
| 10 | MW-22-2MS | 2017619-05MS | Water | 06/17/20 |
| 11 | MW-22-2MSD | 2017619-05MSD | Water | 06/17/20 |
| 12 | MW-22-2DUP | 2017619-05DUP | Water | 06/17/20 |
| 13 | MW-24-2MS | 2017619-09MS | Water | 06/17/20 |
| 14 | MW-24-2MSD | 2017619-09MSD | Water | 06/17/20 |
| 15 | MW-24-2DUP | 2017619-09DUP | Water | 06/17/20 |
| 16 | MW-24-1MS | 2017619-10MS | Water | 06/17/20 |

LDC #: 48752A6 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 2017619 **Level III/IV**
 Laboratory: BC Laboratories, Inc.

Date: 8/13/20
 Page: 12 of 2
 Reviewer: ATL
 2nd Reviewer: [Signature]

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

| | Client ID | Lab ID | Matrix | Date |
|----|------------|---------------|--------|----------|
| 17 | MW-24-1MSD | 2017619-10MSD | Water | 06/17/20 |
| 18 | MW-24-1DUP | 2017619-10DUP | Water | 06/17/20 |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |

Notes: _____

| METHOD: Inorganics | | | | |
|--|-----|----|----|----------|
| Validation Area | Yes | No | NA | Comments |
| I. Technical holding times | | | | |
| Were all technical holding times met? | | X | | |
| II. Calibration | | | | |
| Were all instruments calibrated at the required frequency? | X | | | |
| Were the proper number of standards used? | X | | | |
| Were all initial and continuing calibration verifications within the QC limits? | X | | | |
| Were all initial calibration correlation coefficients within limits as specified by the method? | X | | | |
| Were balance checks performed as required? | | | | |
| III. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | X | | | |
| Was there contamination in the method blanks? | X | | | |
| Was there contamination in the initial and continuing calibration blanks? | X | | | |
| IV. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates | | | | |
| Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.) | X | | | |
| Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits? | X | | | |
| V. Laboratory Control Samples | | | | |
| Was a LCS analyzed for each batch in the SDG? | X | | | |
| Were the LCS recoveries and RPDs (if applicable) within QC limits? | X | | | |
| X. Sample Result Verification | | | | |
| Were all reporting limits adjusted to reflect sample dilutions? | X | | | |
| Were all soil samples dry weight corrected? | | | X | |
| XI. Overall Assessment of Data | | | | |
| Was the overall assessment of the data found to be acceptable? | X | | | |

| METHOD: Inorganics | | | | |
|--|-----|----|----|----------|
| Validation Area | Yes | No | NA | Comments |
| XII. Field Duplicates | | | | |
| Were field duplicates identified in this SDG? | | X | | |
| Were target analytes detected in the field duplicates? | | | X | |
| XIII. Field Blanks | | | | |
| Were field blanks identified in this SDG? | X | | | |
| Were target analytes detected in the field blanks? | X | | | |

All elements are applicable to each sample as noted below.

| Sample ID | Target Analyte List |
|-----------|---|
| 1 to 9 | pH, TDS, Cr6+, Cl, NO3-N, SO4, ClO4, NO2-N, Alk |
| 9 | PO4-P |
| | |
| | |
| QC | |
| 12,15 | pH, TDS, Alk |
| 13,14,15 | Cr6+ |
| 10 to 15 | Cl, NO3-N, SO4, ClO4, NO2-N |
| 16,17,18 | PO4-P |
| | |
| | |
| | |
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| | |
| | |

Holding Time

METHOD: Inorganics

All samples were properly preserved and within the required holding time with the following exceptions:

| | | Method: EPA 150.1 Analyte: pH Holding Time: 48hrs | | | |
|-----------|---------------|---|--|-----------|--------|
| Sample ID | Sampling Date | Analysis Date | Total Time from Collection to Analysis | Qualifier | Det/ND |
| 1 to 9 | 6/17/2020 | 6/23/2020 | 6 days | J/UJ/P | det |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Preservation

| Sample ID | Preservation | Preservation Requirement (pH) | Qualifier | Det/ND |
|-----------|--------------|-------------------------------|-----------|--------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

METHOD: Inorganics

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 4

| Analyte | PB (mg/L) | Maximum ICB/CCB (units) | Action Level | Sample Identification | | | | | | | | | |
|---------|-----------|-------------------------|--------------|-----------------------|---|---|---|---|---|---|---|--|--|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| NO2-N | 0.018332 | | 0.09166 | 4 | | | | | | | | | |
| | | | | 0.016 | | | | | | | | | |
| | | | | | | | | | | | | | |

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 1 to 5

| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | Sample Identification | | | | | 6 | 7 | 8 | 9 |
|---------|-----------|------------------------|--------------|-----------------------|-------|-------|-------|-------|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 5 | | | | |
| NO2-N | | 0.017832 | 0.08916 | 0.015 | 0.016 | 0.016 | 0.016 | 0.014 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

METHOD: Inorganics

Blank units: mg/L

Associated sample units: mg/L

Sampling Date: 6/17/20

Associated Samples: none

| | | | Sample Identification | | | | | | | | | | |
|---------|----------|------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Blank ID | Blank Conc | Action Level | | | | | | | | | | |
| TDS | 6 | 3.3 | | | | | | | | | | | |
| Cr6+ | | 0.000038 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The action level, when applicable, is established at 5X the highest concentration.

Validation Findings Worksheet Initial and Continuing Calibration Calculation Verification

Method: Inorganics, Method see cover

The correlation coefficient (r) for the calibration of NO3-N was recalculated. Calibration date: 6/15/20

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 | FOUND | TRUE | Area | Recalculated | Reported | Acceptable (Y/N) |
|-------------------------------------|---------|----------|--------------|-------|---------------------|---------------------|---------------------|
| | | Standard | Conc. (mg/l) | | r or r ² | r or r ² | |
| Initial Calibration Verification | NO3-N | s1 | 0.1 | 0.028 | 0.999970 | 0.997959 | Y |
| | | s2 | 0.5 | 0.184 | | | |
| | | s3 | 2 | 0.778 | | | |
| | | s4 | 5 | 1.984 | | | |
| | | s5 | 10 | 4.288 | | | |
| | | s6 | 20 | 9.375 | | | |
| Calibration verification | Cr6+ | 24.7917 | 25 | | 99.1668 | 99.2 | Y |
| Calibration verification | ClO4- | 10.4903 | 10 | | 104.903 | 105 | Y |
| Calibration verification | NO2-N | 0.5078 | 0.5 | | 101.56 | 101 | 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 CHECKLIST
Quality Control Sample Recalculations

METHOD: Inorganics

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

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

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

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

| Sample ID | Type of Analysis | Element | Found/S | True/D | Recalculated %R/RPD | Reported %R/RPD | Acceptable (Y/N) |
|-----------|------------------|---------|---------|--------|---------------------|-----------------|------------------|
| LCS | LCS | TDS | 585 | 586 | 99.82935154 | 99.8 | Y |
| 13 | MS | Cl | 51.4468 | 50.505 | 101.8647659 | 105 | Y |
| 12 | Duplicate | Alk | 185.744 | 190.62 | 2.591108608 | 2.5 | Y |

METHOD: Inorganics

Analytes were recalculated and verified using the following equation:

Concentration = (Result from raw data x Final volume x Dilution factor) / (Percent solids (if applicable) x Initial weight or volume)

| Sample ID | Analyte | Raw Data (mg/L) | Dilution | Initial Weight/ Volume (ml) | Final Volume (ml) | Percent solids (%) | Reported Result (mg/L) | Recalculated Result (mg/L) | Acceptable (Y/N) |
|-----------|-----------------|-----------------|----------|--------------------------------|----------------------|-----------------------|---------------------------|-------------------------------|---------------------|
| 4 | pH (pH Units) | 8.12 | 1 | 50 | 50 | 100 | 8.12 | 8.12 | Y |
| 4 | TDS | 223 | 2 | 50 | 50 | 100 | 450 | 446 | Y |
| 4 | Cr6+ | 0.001264 | 1 | 20 | 20 | 100 | 0.0013 | 0.001264 | Y |
| 4 | Cl | 51.703 | 1 | 20 | 20 | 100 | 52 | 51.703 | Y |
| 4 | ClO4- (ppb) | 3 | 1 | 20 | 20 | 100 | 2.8 | 3 | Y |
| 4 | NO2-N | 0.0165 | 1 | 20 | 20 | 100 | 0.016 | 0.0165 | Y |
| 4 | Alk total | 190.456 | 1 | 50 | 50 | 100 | 190 | 190.456 | Y |
| 8 | pH (pH Units) | 8.03 | 1 | 50 | 50 | 100 | 8.03 | 8.03 | Y |
| 8 | TDS | 184 | 2 | 50 | 50 | 100 | 370 | 368 | Y |
| 8 | Cr6+ | 0.002184 | 1 | 20 | 20 | 100 | 0.0022 | 0.002184 | Y |
| 8 | SO4 | 29.223 | 1 | 20 | 20 | 100 | 29 | 29.223 | Y |
| 8 | ClO4- (ppb) | 5 | 1 | 20 | 20 | 100 | 4.9 | 5 | Y |
| 8 | NO2-N | 0.0055 | 1 | 20 | 20 | 100 | ND | 0.0055 | Y |
| 8 | Alk Bicarbonate | 206.949 | 1 | 50 | 50 | 100 | 210 | 206.949 | Y |

NASA JPL, 2Q2020 - LDC# 48752A

SDG: 2017619

| Analytical Method | | EPA-150.1 | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|------|------|----------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | pH | 6/23/2020 | 4.56 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-22-1 | 2017619-06 | pH | 6/23/2020 | 7.93 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-22-2 | 2017619-05 | pH | 6/23/2020 | 8.12 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-22-3 | 2017619-04 | pH | 6/23/2020 | 8.04 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-22-4 | 2017619-03 | pH | 6/23/2020 | 7.88 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-22-S | 2017619-02 | pH | 6/23/2020 | 9.04 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-24-1 | 2017619-10 | pH | 6/23/2020 | 7.81 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-24-2 | 2017619-09 | pH | 6/23/2020 | 8.03 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-24-5 | 2017619-08 | pH | 6/23/2020 | 8.09 | Y | y | v | J | 0.05 | 0.05 | pH Units |

| Analytical Method | | EPA-160.1 | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Total Dissolved Solids @ 180 C | 6/19/2020 | 3.3 | Y | y | v j | | 6.7 | 3.3 | mg/L |
| MW-22-1 | 2017619-06 | Total Dissolved Solids @ 180 C | 6/19/2020 | 600 | Y | y | v | | 33 | 17 | mg/L |
| MW-22-2 | 2017619-05 | Total Dissolved Solids @ 180 C | 6/19/2020 | 450 | Y | y | v | | 20 | 10 | mg/L |
| MW-22-3 | 2017619-04 | Total Dissolved Solids @ 180 C | 6/19/2020 | 340 | Y | y | v | | 20 | 10 | mg/L |
| MW-22-4 | 2017619-03 | Total Dissolved Solids @ 180 C | 6/19/2020 | 220 | Y | y | v | | 20 | 10 | mg/L |
| MW-22-S | 2017619-02 | Total Dissolved Solids @ 180 C | 6/19/2020 | 220 | Y | y | v | | 20 | 10 | mg/L |
| MW-24-1 | 2017619-10 | Total Dissolved Solids @ 180 C | 6/19/2020 | 450 | Y | y | v | | 33 | 17 | mg/L |
| MW-24-2 | 2017619-09 | Total Dissolved Solids @ 180 C | 6/19/2020 | 370 | Y | y | v | | 20 | 10 | mg/L |
| MW-24-5 | 2017619-08 | Total Dissolved Solids @ 180 C | 6/19/2020 | 270 | Y | y | v | | 20 | 10 | mg/L |

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Total Recoverable Potassium | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |

SDG: 2017619

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Total Recoverable Iron | 6/23/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-7-061720 | 2017619-07 | Total Recoverable Sodium | 6/23/2020 | 0.23 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| EB-7-061720 | 2017619-07 | Total Recoverable Calcium | 6/23/2020 | 0.047 | Y | y | v j | | 0.10 | 0.014 | mg/L |
| EB-7-061720 | 2017619-07 | Total Recoverable Magnesium | 6/23/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| MW-22-1 | 2017619-06 | Total Recoverable Sodium | 6/23/2020 | 30 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-22-1 | 2017619-06 | Total Recoverable Iron | 6/23/2020 | 200 | Y | y | v | | 50 | 30 | ug/L |
| MW-22-1 | 2017619-06 | Total Recoverable Magnesium | 6/23/2020 | 32 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-22-1 | 2017619-06 | Total Recoverable Potassium | 6/23/2020 | 2.3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-22-1 | 2017619-06 | Total Recoverable Calcium | 6/23/2020 | 95 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-22-2 | 2017619-05 | Total Recoverable Magnesium | 6/23/2020 | 25 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-22-2 | 2017619-05 | Total Recoverable Calcium | 6/23/2020 | 64 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-22-2 | 2017619-05 | Total Recoverable Potassium | 6/23/2020 | 2.2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-22-2 | 2017619-05 | Total Recoverable Iron | 6/23/2020 | 52 | Y | y | v | | 50 | 30 | ug/L |
| MW-22-2 | 2017619-05 | Total Recoverable Sodium | 6/23/2020 | 31 | Y | y | v | J | 0.50 | 0.051 | mg/L |
| MW-22-3 | 2017619-04 | Total Recoverable Potassium | 6/23/2020 | 2.1 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-22-3 | 2017619-04 | Total Recoverable Magnesium | 6/23/2020 | 17 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-22-3 | 2017619-04 | Total Recoverable Calcium | 6/23/2020 | 42 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-22-3 | 2017619-04 | Total Recoverable Iron | 6/23/2020 | 39 | Y | y | v j | | 50 | 30 | ug/L |
| MW-22-3 | 2017619-04 | Total Recoverable Sodium | 6/23/2020 | 38 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-22-4 | 2017619-03 | Total Recoverable Calcium | 6/23/2020 | 36 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-22-4 | 2017619-03 | Total Recoverable Potassium | 6/23/2020 | 1.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-22-4 | 2017619-03 | Total Recoverable Magnesium | 6/23/2020 | 11 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-22-4 | 2017619-03 | Total Recoverable Iron | 6/23/2020 | 39 | Y | y | v j | | 50 | 30 | ug/L |
| MW-22-4 | 2017619-03 | Total Recoverable Sodium | 6/23/2020 | 29 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-22-S | 2017619-02 | Total Recoverable Sodium | 6/23/2020 | 62 | Y | y | v | | 0.50 | 0.051 | mg/L |

SDG: 2017619

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-S | 2017619-02 | Total Recoverable Iron | 6/23/2020 | 53 | Y | y | v | | 50 | 30 | ug/L |
| MW-22-S | 2017619-02 | Total Recoverable Potassium | 6/23/2020 | 0.7 | Y | y | v j | | 1.0 | 0.10 | mg/L |
| MW-22-S | 2017619-02 | Total Recoverable Calcium | 6/23/2020 | 5.5 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-22-S | 2017619-02 | Total Recoverable Magnesium | 6/23/2020 | 1.6 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-24-1 | 2017619-10 | Total Recoverable Potassium | 6/23/2020 | 3.5 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-24-1 | 2017619-10 | Total Recoverable Sodium | 6/23/2020 | 40 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-24-1 | 2017619-10 | Total Recoverable Iron | 6/23/2020 | 180 | Y | y | v | | 50 | 30 | ug/L |
| MW-24-1 | 2017619-10 | Total Recoverable Magnesium | 6/23/2020 | 20 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-24-1 | 2017619-10 | Total Recoverable Calcium | 6/23/2020 | 65 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-24-2 | 2017619-09 | Total Recoverable Magnesium | 6/23/2020 | 15 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-24-2 | 2017619-09 | Total Recoverable Iron | 6/23/2020 | 90 | Y | y | v | | 50 | 30 | ug/L |
| MW-24-2 | 2017619-09 | Total Recoverable Potassium | 6/23/2020 | 2.8 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-24-2 | 2017619-09 | Total Recoverable Sodium | 6/23/2020 | 44 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-24-2 | 2017619-09 | Total Recoverable Calcium | 6/23/2020 | 51 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-24-5 | 2017619-08 | Total Recoverable Iron | 6/23/2020 | 250 | Y | y | v | | 50 | 30 | ug/L |
| MW-24-5 | 2017619-08 | Total Recoverable Calcium | 6/23/2020 | 37 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-24-5 | 2017619-08 | Total Recoverable Sodium | 6/23/2020 | 38 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-24-5 | 2017619-08 | Total Recoverable Potassium | 6/23/2020 | 1.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-24-5 | 2017619-08 | Total Recoverable Magnesium | 6/23/2020 | 9.6 | Y | y | v | | 0.050 | 0.019 | mg/L |

| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| EB-7-061720 | 2017619-07 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| EB-7-061720 | 2017619-07 | Total Recoverable Chromium | 6/23/2020 | 1.4 | Y | y | v j | | 3.0 | 0.50 | ug/L |

SDG: 2017619

| 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-22-1 | 2017619-06 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-22-1 | 2017619-06 | Total Recoverable Chromium | 6/23/2020 | 0.86 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-22-1 | 2017619-06 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-22-2 | 2017619-05 | Total Recoverable Chromium | 6/23/2020 | 1.4 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-22-2 | 2017619-05 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-22-2 | 2017619-05 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-22-3 | 2017619-04 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-22-3 | 2017619-04 | Total Recoverable Chromium | 6/23/2020 | 0.96 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-22-3 | 2017619-04 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-22-4 | 2017619-03 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-22-4 | 2017619-03 | Total Recoverable Chromium | 6/23/2020 | 2.8 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-22-4 | 2017619-03 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-22-S | 2017619-02 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-22-S | 2017619-02 | Total Recoverable Chromium | 6/23/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-22-S | 2017619-02 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-24-1 | 2017619-10 | Total Recoverable Chromium | 6/23/2020 | 1.1 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-24-1 | 2017619-10 | Total Recoverable Arsenic | 6/23/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-24-1 | 2017619-10 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-24-2 | 2017619-09 | Total Recoverable Arsenic | 6/23/2020 | 1.9 | Y | y | v j | U | 2.0 | 0.70 | ug/L |
| MW-24-2 | 2017619-09 | Total Recoverable Chromium | 6/23/2020 | 1.8 | Y | y | v j | U | 3.0 | 0.50 | ug/L |
| MW-24-2 | 2017619-09 | Total Recoverable Lead | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-24-5 | 2017619-08 | Total Recoverable Lead | 6/23/2020 | 0.13 | Y | y | v j | | 1.0 | 0.10 | ug/L |
| MW-24-5 | 2017619-08 | Total Recoverable Arsenic | 6/23/2020 | 2.3 | Y | y | v | | 2.0 | 0.70 | ug/L |
| MW-24-5 | 2017619-08 | Total Recoverable Chromium | 6/23/2020 | 3.1 | Y | y | v | | 3.0 | 0.50 | ug/L |

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| 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-7-061720 | 2017619-07 | Hexavalent Chromium | 6/18/2020 | ##### | Y | y | v j | | 0.0002 | 0.0000 | mg/L |
| MW-22-1 | 2017619-06 | Hexavalent Chromium | 6/18/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-22-2 | 2017619-05 | Hexavalent Chromium | 6/18/2020 | 0.0013 | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-22-3 | 2017619-04 | Hexavalent Chromium | 6/18/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-22-4 | 2017619-03 | Hexavalent Chromium | 6/18/2020 | 0.0025 | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-22-S | 2017619-02 | Hexavalent Chromium | 6/18/2020 | ##### | Y | y | v j | | 0.0002 | 0.0000 | mg/L |
| MW-24-1 | 2017619-10 | Hexavalent Chromium | 6/18/2020 | ##### | Y | y | v j | | 0.0002 | 0.0000 | mg/L |
| MW-24-2 | 2017619-09 | Hexavalent Chromium | 6/18/2020 | 0.0022 | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-24-5 | 2017619-08 | Hexavalent Chromium | 6/18/2020 | 0.0023 | 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 |
| EB-7-061720 | 2017619-07 | Nitrate as N | 6/18/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| EB-7-061720 | 2017619-07 | Chloride | 6/18/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | mg/L |
| EB-7-061720 | 2017619-07 | Sulfate | 6/18/2020 | 1 | Y | n | u | | 1.0 | 0.14 | mg/L |
| MW-22-1 | 2017619-06 | Chloride | 6/19/2020 | 83 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-22-1 | 2017619-06 | Sulfate | 6/19/2020 | 80 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-22-1 | 2017619-06 | Nitrate as N | 6/19/2020 | 3.5 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-22-2 | 2017619-05 | Chloride | 6/19/2020 | 52 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-22-2 | 2017619-05 | Nitrate as N | 6/19/2020 | 7.6 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-22-2 | 2017619-05 | Sulfate | 6/19/2020 | 56 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-22-3 | 2017619-04 | Chloride | 6/19/2020 | 38 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-22-3 | 2017619-04 | Nitrate as N | 6/19/2020 | 7.4 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-22-3 | 2017619-04 | Sulfate | 6/19/2020 | 40 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-22-4 | 2017619-03 | Nitrate as N | 6/19/2020 | 4.5 | Y | y | v | | 0.10 | 0.024 | mg/L |

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| Analytical Method | | EPA-300.0 | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-4 | 2017619-03 | Sulfate | 6/19/2020 | 11 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-22-4 | 2017619-03 | Chloride | 6/19/2020 | 14 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-22-S | 2017619-02 | Sulfate | 6/19/2020 | 36 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-22-S | 2017619-02 | Nitrate as N | 6/19/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| MW-22-S | 2017619-02 | Chloride | 6/19/2020 | 7.2 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-24-1 | 2017619-10 | Sulfate | 6/18/2020 | 50 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-24-1 | 2017619-10 | Chloride | 6/18/2020 | 76 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-24-1 | 2017619-10 | Nitrate as N | 6/18/2020 | 0.88 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-24-2 | 2017619-09 | Sulfate | 6/18/2020 | 29 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-24-2 | 2017619-09 | Nitrate as N | 6/18/2020 | 2.1 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-24-2 | 2017619-09 | Chloride | 6/18/2020 | 56 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-24-5 | 2017619-08 | Nitrate as N | 6/18/2020 | 1.1 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-24-5 | 2017619-08 | Chloride | 6/18/2020 | 8.7 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-24-5 | 2017619-08 | Sulfate | 6/18/2020 | 21 | Y | y | v | | 1.0 | 0.14 | mg/L |

| Analytical Method | | EPA-314.0 | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Perchlorate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-22-1 | 2017619-06 | Perchlorate | 6/26/2020 | 160 | Y | y | v | | 80 | 16 | ug/L |
| MW-22-2 | 2017619-05 | Perchlorate | 6/25/2020 | 2.8 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-22-3 | 2017619-04 | Perchlorate | 6/25/2020 | 3.5 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-22-4 | 2017619-03 | Perchlorate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-22-S | 2017619-02 | Perchlorate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-24-1 | 2017619-10 | Perchlorate | 6/25/2020 | 5.6 | Y | y | v | | 4.0 | 0.81 | ug/L |
| MW-24-2 | 2017619-09 | Perchlorate | 6/25/2020 | 4.9 | Y | y | v | | 4.0 | 0.81 | ug/L |

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| Analytical Method | | EPA-314.0 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-5 | 2017619-08 | Perchlorate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 0.81 | 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 |
| EB-7-061720 | 2017619-07 | Nitrite as N | 6/18/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-22-1 | 2017619-06 | Nitrite as N | 6/18/2020 | 0.014 | Y | y | v j | U | 0.050 | 0.010 | mg/L |
| MW-22-2 | 2017619-05 | Nitrite as N | 6/18/2020 | 0.016 | Y | y | v j | U | 0.050 | 0.010 | mg/L |
| MW-22-3 | 2017619-04 | Nitrite as N | 6/18/2020 | 0.016 | Y | y | v j | U | 0.050 | 0.010 | mg/L |
| MW-22-4 | 2017619-03 | Nitrite as N | 6/18/2020 | 0.016 | Y | y | v j | U | 0.050 | 0.010 | mg/L |
| MW-22-S | 2017619-02 | Nitrite as N | 6/18/2020 | 0.015 | Y | y | v j | U | 0.050 | 0.010 | mg/L |
| MW-24-1 | 2017619-10 | Nitrite as N | 6/18/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-24-2 | 2017619-09 | Nitrite as N | 6/18/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-24-5 | 2017619-08 | Nitrite as N | 6/18/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |

| Analytical Method | | EPA-365.1 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-1 | 2017619-10 | ortho-Phosphate as P | 6/19/2020 | 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 |
| EB-7-061720 | 2017619-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-7-061720 | 2017619-07 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| EB-7-061720 | 2017619-07 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| EB-7-061720 | 2017619-07 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-7-061720 | 2017619-07 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-7-061720 | 2017619-07 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-7-061720 | 2017619-07 | Acetone | 6/19/2020 | 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 |
| EB-7-061720 | 2017619-07 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| EB-7-061720 | 2017619-07 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| EB-7-061720 | 2017619-07 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-7-061720 | 2017619-07 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-7-061720 | 2017619-07 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-7-061720 | 2017619-07 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| EB-7-061720 | 2017619-07 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| EB-7-061720 | 2017619-07 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| EB-7-061720 | 2017619-07 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-7-061720 | 2017619-07 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| EB-7-061720 | 2017619-07 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| EB-7-061720 | 2017619-07 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| EB-7-061720 | 2017619-07 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| EB-7-061720 | 2017619-07 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-7-061720 | 2017619-07 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| EB-7-061720 | 2017619-07 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-7-061720 | 2017619-07 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-7-061720 | 2017619-07 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-7-061720 | 2017619-07 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-7-061720 | 2017619-07 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-7-061720 | 2017619-07 | Methyl isobutyl ketone | 6/19/2020 | 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 |
| EB-7-061720 | 2017619-07 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-7-061720 | 2017619-07 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-7-061720 | 2017619-07 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-7-061720 | 2017619-07 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| EB-7-061720 | 2017619-07 | Chloroform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-7-061720 | 2017619-07 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-7-061720 | 2017619-07 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-7-061720 | 2017619-07 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-7-061720 | 2017619-07 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| EB-7-061720 | 2017619-07 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-7-061720 | 2017619-07 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-7-061720 | 2017619-07 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-7-061720 | 2017619-07 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-7-061720 | 2017619-07 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-7-061720 | 2017619-07 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-7-061720 | 2017619-07 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-7-061720 | 2017619-07 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-7-061720 | 2017619-07 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-7-061720 | 2017619-07 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-7-061720 | 2017619-07 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-7-061720 | 2017619-07 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-7-061720 | 2017619-07 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-7-061720 | 2017619-07 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-7-061720 | 2017619-07 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-7-061720 | 2017619-07 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-7-061720 | 2017619-07 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-7-061720 | 2017619-07 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-7-061720 | 2017619-07 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-7-061720 | 2017619-07 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-7-061720 | 2017619-07 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-7-061720 | 2017619-07 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-7-061720 | 2017619-07 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-7-061720 | 2017619-07 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-7-061720 | 2017619-07 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-1 | 2017619-06 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-22-1 | 2017619-06 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-22-1 | 2017619-06 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-22-1 | 2017619-06 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-22-1 | 2017619-06 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-1 | 2017619-06 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-22-1 | 2017619-06 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-22-1 | 2017619-06 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-22-1 | 2017619-06 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-22-1 | 2017619-06 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-22-1 | 2017619-06 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-22-1 | 2017619-06 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-1 | 2017619-06 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-22-1 | 2017619-06 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-22-1 | 2017619-06 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-1 | 2017619-06 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-1 | 2017619-06 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-1 | 2017619-06 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-1 | 2017619-06 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-22-1 | 2017619-06 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-22-1 | 2017619-06 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-1 | 2017619-06 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-22-1 | 2017619-06 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-1 | 2017619-06 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-1 | 2017619-06 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-1 | 2017619-06 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-1 | 2017619-06 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-22-1 | 2017619-06 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-22-1 | 2017619-06 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-1 | 2017619-06 | Chloroform | 6/19/2020 | 2.1 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-1 | 2017619-06 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-1 | 2017619-06 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-1 | 2017619-06 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-1 | 2017619-06 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-1 | 2017619-06 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-1 | 2017619-06 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-22-1 | 2017619-06 | 1,2-Dichloropropane | 6/19/2020 | 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-22-1 | 2017619-06 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-1 | 2017619-06 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-1 | 2017619-06 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-1 | 2017619-06 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-1 | 2017619-06 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-22-1 | 2017619-06 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-1 | 2017619-06 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-22-1 | 2017619-06 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-1 | 2017619-06 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-22-1 | 2017619-06 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-1 | 2017619-06 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-1 | 2017619-06 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-1 | 2017619-06 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-1 | 2017619-06 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-1 | 2017619-06 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-1 | 2017619-06 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-1 | 2017619-06 | 1,1,1-Trichloroethane | 6/19/2020 | 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-22-1 | 2017619-06 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-1 | 2017619-06 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-22-1 | 2017619-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-1 | 2017619-06 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-1 | 2017619-06 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-1 | 2017619-06 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-1 | 2017619-06 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-1 | 2017619-06 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-1 | 2017619-06 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-1 | 2017619-06 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-1 | 2017619-06 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-1 | 2017619-06 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-2 | 2017619-05 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-22-2 | 2017619-05 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-22-2 | 2017619-05 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-22-2 | 2017619-05 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-2 | 2017619-05 | Trichloroethene | 6/19/2020 | 0.25 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-22-2 | 2017619-05 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

SDG: 2017619

| Analytical 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 | 2017619-05 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-2 | 2017619-05 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-22-2 | 2017619-05 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-22-2 | 2017619-05 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-2 | 2017619-05 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-22-2 | 2017619-05 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-2 | 2017619-05 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-22-2 | 2017619-05 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-22-2 | 2017619-05 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-2 | 2017619-05 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-22-2 | 2017619-05 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-22-2 | 2017619-05 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-22-2 | 2017619-05 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-2 | 2017619-05 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-2 | 2017619-05 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-22-2 | 2017619-05 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-2 | 2017619-05 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-2 | 2017619-05 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-2 | 2017619-05 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-2 | 2017619-05 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-2 | 2017619-05 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-2 | 2017619-05 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-2 | 2017619-05 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-2 | 2017619-05 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-2 | 2017619-05 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-22-2 | 2017619-05 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-2 | 2017619-05 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-2 | 2017619-05 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-2 | 2017619-05 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-2 | 2017619-05 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-2 | 2017619-05 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-2 | 2017619-05 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-22-2 | 2017619-05 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-22-2 | 2017619-05 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-2 | 2017619-05 | Chloroform | 6/19/2020 | 0.25 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-2 | 2017619-05 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-22-2 | 2017619-05 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-2 | 2017619-05 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-2 | 2017619-05 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-22-2 | 2017619-05 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-2 | 2017619-05 | Bromobenzene | 6/19/2020 | 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-22-2 | 2017619-05 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-2 | 2017619-05 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-2 | 2017619-05 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-22-2 | 2017619-05 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-2 | 2017619-05 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-2 | 2017619-05 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-2 | 2017619-05 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-22-2 | 2017619-05 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-22-2 | 2017619-05 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-22-2 | 2017619-05 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-22-2 | 2017619-05 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-2 | 2017619-05 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-2 | 2017619-05 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-2 | 2017619-05 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-2 | 2017619-05 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-2 | 2017619-05 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-2 | 2017619-05 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-2 | 2017619-05 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-2 | 2017619-05 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-2 | 2017619-05 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-2 | 2017619-05 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-2 | 2017619-05 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-2 | 2017619-05 | Dichlorodifluoromethane | 6/19/2020 | 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-22-2 | 2017619-05 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-2 | 2017619-05 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-22-2 | 2017619-05 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-2 | 2017619-05 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-3 | 2017619-04 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-3 | 2017619-04 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-3 | 2017619-04 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-3 | 2017619-04 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-3 | 2017619-04 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-3 | 2017619-04 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-3 | 2017619-04 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-22-3 | 2017619-04 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-3 | 2017619-04 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-22-3 | 2017619-04 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-3 | 2017619-04 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-3 | 2017619-04 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 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-22-3 | 2017619-04 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-3 | 2017619-04 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-3 | 2017619-04 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-3 | 2017619-04 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-3 | 2017619-04 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-3 | 2017619-04 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-3 | 2017619-04 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-3 | 2017619-04 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-3 | 2017619-04 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-3 | 2017619-04 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-3 | 2017619-04 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-3 | 2017619-04 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-3 | 2017619-04 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-3 | 2017619-04 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-22-3 | 2017619-04 | n-Butylbenzene | 6/19/2020 | 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-22-3 | 2017619-04 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-3 | 2017619-04 | Chloroform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-22-3 | 2017619-04 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-22-3 | 2017619-04 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-22-3 | 2017619-04 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-22-3 | 2017619-04 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-22-3 | 2017619-04 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-22-3 | 2017619-04 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-22-3 | 2017619-04 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-22-3 | 2017619-04 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-22-3 | 2017619-04 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-22-3 | 2017619-04 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-22-3 | 2017619-04 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-3 | 2017619-04 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-3 | 2017619-04 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-22-3 | 2017619-04 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-3 | 2017619-04 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-22-3 | 2017619-04 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-3 | 2017619-04 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | 2-Hexanone | 6/19/2020 | 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-22-3 | 2017619-04 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-3 | 2017619-04 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-22-3 | 2017619-04 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-3 | 2017619-04 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-3 | 2017619-04 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-3 | 2017619-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-3 | 2017619-04 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-3 | 2017619-04 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-3 | 2017619-04 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-3 | 2017619-04 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-22-3 | 2017619-04 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-22-3 | 2017619-04 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-22-3 | 2017619-04 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-22-3 | 2017619-04 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-3 | 2017619-04 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-22-4 | 2017619-03 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-22-4 | 2017619-03 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-4 | 2017619-03 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-4 | 2017619-03 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-4 | 2017619-03 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-4 | 2017619-03 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-4 | 2017619-03 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-22-4 | 2017619-03 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-22-4 | 2017619-03 | Nitrobenzene | 6/19/2020 | 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-22-4 | 2017619-03 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-4 | 2017619-03 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-22-4 | 2017619-03 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-4 | 2017619-03 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-4 | 2017619-03 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-4 | 2017619-03 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-4 | 2017619-03 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-4 | 2017619-03 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-4 | 2017619-03 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-4 | 2017619-03 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-4 | 2017619-03 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-4 | 2017619-03 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-22-4 | 2017619-03 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-4 | 2017619-03 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-22-4 | 2017619-03 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-22-4 | 2017619-03 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-22-4 | 2017619-03 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |

SDG: 2017619

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-4 | 2017619-03 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-4 | 2017619-03 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-4 | 2017619-03 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-22-4 | 2017619-03 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-22-4 | 2017619-03 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-4 | 2017619-03 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-4 | 2017619-03 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | Chloroform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-4 | 2017619-03 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-4 | 2017619-03 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-22-4 | 2017619-03 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-4 | 2017619-03 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-22-4 | 2017619-03 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-22-4 | 2017619-03 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-22-4 | 2017619-03 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-4 | 2017619-03 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-4 | 2017619-03 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

SDG: 2017619

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-4 | 2017619-03 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-22-4 | 2017619-03 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-4 | 2017619-03 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-22-4 | 2017619-03 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-22-4 | 2017619-03 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-22-4 | 2017619-03 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-22-4 | 2017619-03 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-22-4 | 2017619-03 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-22-4 | 2017619-03 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-4 | 2017619-03 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-4 | 2017619-03 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-4 | 2017619-03 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-4 | 2017619-03 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-4 | 2017619-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-4 | 2017619-03 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-4 | 2017619-03 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-22-4 | 2017619-03 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-4 | 2017619-03 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-4 | 2017619-03 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-4 | 2017619-03 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-4 | 2017619-03 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-4 | 2017619-03 | 1,1,2-Trichloroethane | 6/19/2020 | 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-22-4 | 2017619-03 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-4 | 2017619-03 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-22-4 | 2017619-03 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-S | 2017619-02 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-S | 2017619-02 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-S | 2017619-02 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-S | 2017619-02 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-S | 2017619-02 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-S | 2017619-02 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-S | 2017619-02 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-S | 2017619-02 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-S | 2017619-02 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-S | 2017619-02 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-S | 2017619-02 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-22-S | 2017619-02 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-S | 2017619-02 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-22-S | 2017619-02 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-S | 2017619-02 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

SDG: 2017619

| Analytical 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-S | 2017619-02 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-S | 2017619-02 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-S | 2017619-02 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-S | 2017619-02 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-22-S | 2017619-02 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-S | 2017619-02 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-22-S | 2017619-02 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-S | 2017619-02 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-22-S | 2017619-02 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-S | 2017619-02 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-S | 2017619-02 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-S | 2017619-02 | Chloroform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-22-S | 2017619-02 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-22-S | 2017619-02 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-S | 2017619-02 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-22-S | 2017619-02 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-22-S | 2017619-02 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-22-S | 2017619-02 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

SDG: 2017619

| Analytical 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-S | 2017619-02 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-S | 2017619-02 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-22-S | 2017619-02 | Carbon disulfide | 6/19/2020 | 0.71 | Y | y | v j | | 1.0 | 0.48 | ug/L |
| MW-22-S | 2017619-02 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-22-S | 2017619-02 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-22-S | 2017619-02 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-22-S | 2017619-02 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-S | 2017619-02 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-S | 2017619-02 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-S | 2017619-02 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-S | 2017619-02 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-22-S | 2017619-02 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-S | 2017619-02 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-22-S | 2017619-02 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-22-S | 2017619-02 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-22-S | 2017619-02 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-22-S | 2017619-02 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-22-S | 2017619-02 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-22-S | 2017619-02 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-22-S | 2017619-02 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-22-S | 2017619-02 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-22-S | 2017619-02 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-22-S | 2017619-02 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-S | 2017619-02 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-22-S | 2017619-02 | 1,1,1-Trichloroethane | 6/19/2020 | 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-22-S | 2017619-02 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-22-S | 2017619-02 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-22-S | 2017619-02 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-S | 2017619-02 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-22-S | 2017619-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-S | 2017619-02 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-22-S | 2017619-02 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-22-S | 2017619-02 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-22-S | 2017619-02 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-22-S | 2017619-02 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-22-S | 2017619-02 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-22-S | 2017619-02 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-22-S | 2017619-02 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-22-S | 2017619-02 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-1 | 2017619-10 | Tetrachloroethene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-24-1 | 2017619-10 | Methyl ethyl ketone | 6/20/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-24-1 | 2017619-10 | Methyl isobutyl ketone | 6/20/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-24-1 | 2017619-10 | Methyl methacrylate | 6/20/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-24-1 | 2017619-10 | Propionitrile | 6/20/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-24-1 | 2017619-10 | Tetrahydrofuran | 6/20/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-24-1 | 2017619-10 | p- & m-Xylenes | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-24-1 | 2017619-10 | Pentachloroethane | 6/20/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-24-1 | 2017619-10 | 1,1,1,2-Tetrachloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-1 | 2017619-10 | o-Xylene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-1 | 2017619-10 | 1,2,3-Trichlorobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-1 | 2017619-10 | 1,2,4-Trichlorobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | Methacrylonitrile | 6/20/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-24-1 | 2017619-10 | 1-Chlorobutane | 6/20/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-1 | 2017619-10 | t-Butyl alcohol | 6/20/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-24-1 | 2017619-10 | Trichloroethene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-1 | 2017619-10 | Chloroacetonitrile | 6/20/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-1 | 2017619-10 | 1,1,2-Trichloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-1 | 2017619-10 | 1,1,1-Trichloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-1 | 2017619-10 | Styrene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-24-1 | 2017619-10 | 1,1,2,2-Tetrachloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | n-Propylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-24-1 | 2017619-10 | 1,2,3-Trichloropropane | 6/20/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-24-1 | 2017619-10 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-1 | 2017619-10 | 1,2,4-Trimethylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | 1,3,5-Trimethylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | Vinyl chloride | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-1 | 2017619-10 | Acetone | 6/20/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-24-1 | 2017619-10 | Acrylonitrile | 6/20/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-24-1 | 2017619-10 | trans-1,4-Dichloro-2-butene | 6/20/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-24-1 | 2017619-10 | Trichlorofluoromethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | 2-Hexanone | 6/20/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-24-1 | 2017619-10 | Benzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-1 | 2017619-10 | t-Amyl Methyl ether | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-1 | 2017619-10 | Carbon disulfide | 6/20/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-1 | 2017619-10 | Bromomethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-1 | 2017619-10 | Diethyl ether | 6/20/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-24-1 | 2017619-10 | Ethyl methacrylate | 6/20/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-24-1 | 2017619-10 | Ethyl t-butyl ether | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-24-1 | 2017619-10 | Hexachloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-1 | 2017619-10 | Allyl chloride | 6/20/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-24-1 | 2017619-10 | Isopropylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | 1,1-Dichloroethene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-1 | 2017619-10 | cis-1,2-Dichloroethene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-1 | 2017619-10 | trans-1,2-Dichloroethene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | 1,2-Dichloropropane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | 1,3-Dichloropropane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-1 | 2017619-10 | 2,2-Dichloropropane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-1 | 2017619-10 | 1,1-Dichloropropene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-1 | 2017619-10 | cis-1,3-Dichloropropene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | Ethylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | 1,2-Dichloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | Hexachlorobutadiene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-1 | 2017619-10 | trans-1,3-Dichloropropene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-1 | 2017619-10 | p-Isopropyltoluene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | Methylene chloride | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-1 | 2017619-10 | Methyl t-butyl ether | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | 2-Nitropropane | 6/20/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-1 | 2017619-10 | Nitrobenzene | 6/20/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-1 | 2017619-10 | Methyl acrylate | 6/20/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-1 | 2017619-10 | 1,1-Dichloropropanone | 6/20/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-1 | 2017619-10 | Methyl iodide | 6/20/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-24-1 | 2017619-10 | Toluene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | Naphthalene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-24-1 | 2017619-10 | Chlorobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | Bromodichloromethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-1 | 2017619-10 | Bromochloromethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-1 | 2017619-10 | 1,1-Dichloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | Bromobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | Bromoform | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-24-1 | 2017619-10 | n-Butylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | sec-Butylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-1 | 2017619-10 | Carbon tetrachloride | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | Chloroethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-1 | 2017619-10 | Chloroform | 6/20/2020 | 4.1 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | Chloromethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-1 | 2017619-10 | 1,2-Dichlorobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-1 | 2017619-10 | Dichlorodifluoromethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-1 | 2017619-10 | tert-Butylbenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-1 | 2017619-10 | 1,3-Dichlorobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-24-1 | 2017619-10 | 2-Chlorotoluene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-1 | 2017619-10 | Dibromomethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-24-1 | 2017619-10 | 1,2-Dibromoethane | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-24-1 | 2017619-10 | 1,2-Dibromo-3-chloropropane | 6/20/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-24-1 | 2017619-10 | Dibromochloromethane | 6/20/2020 | 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-24-1 | 2017619-10 | 4-Chlorotoluene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-24-1 | 2017619-10 | 1,4-Dichlorobenzene | 6/20/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-24-2 | 2017619-09 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-2 | 2017619-09 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-24-2 | 2017619-09 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-24-2 | 2017619-09 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-24-2 | 2017619-09 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-24-2 | 2017619-09 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-2 | 2017619-09 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-24-2 | 2017619-09 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-24-2 | 2017619-09 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-24-2 | 2017619-09 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-24-2 | 2017619-09 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-24-2 | 2017619-09 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-24-2 | 2017619-09 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-24-2 | 2017619-09 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-2 | 2017619-09 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-2 | 2017619-09 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-2 | 2017619-09 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-2 | 2017619-09 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-24-2 | 2017619-09 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-24-2 | 2017619-09 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-2 | 2017619-09 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-2 | 2017619-09 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|--------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-2 | 2017619-09 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-2 | 2017619-09 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-2 | 2017619-09 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-2 | 2017619-09 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-24-2 | 2017619-09 | Bromodichloromethane | 6/19/2020 | 0.35 | Y | y | v j | | 0.50 | 0.20 | ug/L |
| MW-24-2 | 2017619-09 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-24-2 | 2017619-09 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-2 | 2017619-09 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-24-2 | 2017619-09 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-24-2 | 2017619-09 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-24-2 | 2017619-09 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-2 | 2017619-09 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-2 | 2017619-09 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | 1,1-Dichloroethane | 6/19/2020 | 0.31 | Y | y | v j | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-2 | 2017619-09 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-24-2 | 2017619-09 | Chloroform | 6/19/2020 | 0.89 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-2 | 2017619-09 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-24-2 | 2017619-09 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-24-2 | 2017619-09 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-24-2 | 2017619-09 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-24-2 | 2017619-09 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-2 | 2017619-09 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-24-2 | 2017619-09 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-2 | 2017619-09 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-2 | 2017619-09 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-2 | 2017619-09 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-2 | 2017619-09 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-2 | 2017619-09 | Tetrachloroethene | 6/19/2020 | 0.28 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-24-2 | 2017619-09 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-2 | 2017619-09 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-2 | 2017619-09 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-24-2 | 2017619-09 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-24-2 | 2017619-09 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-2 | 2017619-09 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-2 | 2017619-09 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-2 | 2017619-09 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-2 | 2017619-09 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-2 | 2017619-09 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-2 | 2017619-09 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-2 | 2017619-09 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-2 | 2017619-09 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-2 | 2017619-09 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-2 | 2017619-09 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-24-2 | 2017619-09 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-24-2 | 2017619-09 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-24-2 | 2017619-09 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-5 | 2017619-08 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-24-5 | 2017619-08 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-5 | 2017619-08 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-5 | 2017619-08 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-5 | 2017619-08 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-24-5 | 2017619-08 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-24-5 | 2017619-08 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-5 | 2017619-08 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-24-5 | 2017619-08 | Acrylonitrile | 6/19/2020 | 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-24-5 | 2017619-08 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-24-5 | 2017619-08 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-5 | 2017619-08 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-24-5 | 2017619-08 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-5 | 2017619-08 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-24-5 | 2017619-08 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-24-5 | 2017619-08 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-5 | 2017619-08 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-5 | 2017619-08 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-5 | 2017619-08 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-5 | 2017619-08 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-5 | 2017619-08 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-5 | 2017619-08 | Chloroform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-5 | 2017619-08 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-24-5 | 2017619-08 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-24-5 | 2017619-08 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-24-5 | 2017619-08 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-24-5 | 2017619-08 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-5 | 2017619-08 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-5 | 2017619-08 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-24-5 | 2017619-08 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-5 | 2017619-08 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-5 | 2017619-08 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-5 | 2017619-08 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-5 | 2017619-08 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| MW-24-5 | 2017619-08 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| MW-24-5 | 2017619-08 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-24-5 | 2017619-08 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-24-5 | 2017619-08 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-24-5 | 2017619-08 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-24-5 | 2017619-08 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-24-5 | 2017619-08 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-24-5 | 2017619-08 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-24-5 | 2017619-08 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-5 | 2017619-08 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-24-5 | 2017619-08 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-24-5 | 2017619-08 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-24-5 | 2017619-08 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-5 | 2017619-08 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-24-5 | 2017619-08 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-5 | 2017619-08 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-5 | 2017619-08 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-5 | 2017619-08 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-5 | 2017619-08 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-5 | 2017619-08 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-24-5 | 2017619-08 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-5 | 2017619-08 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-24-5 | 2017619-08 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-24-5 | 2017619-08 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-24-5 | 2017619-08 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-5 | 2017619-08 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-24-5 | 2017619-08 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-24-5 | 2017619-08 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-5 | 2017619-08 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-24-5 | 2017619-08 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-24-5 | 2017619-08 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-5 | 2017619-08 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-24-5 | 2017619-08 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-24-5 | 2017619-08 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-24-5 | 2017619-08 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-24-5 | 2017619-08 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-24-5 | 2017619-08 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-24-5 | 2017619-08 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-5 | 2017619-08 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | Dichlorodifluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | 4-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-7-061720 | 2017619-01 | Dibromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2-Dibromo-3-chloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2-Dibromoethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-7-061720 | 2017619-01 | Dibromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-7-061720 | 2017619-01 | 2,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-7-061720 | 2017619-01 | 1,3-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-7-061720 | 2017619-01 | 1,3-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2-Dichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2-Dichloropropane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | trans-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | Bromoform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-7-061720 | 2017619-01 | cis-1,2-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1-Dichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-7-061720 | 2017619-01 | 1,4-Dichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | Bromodichloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-7-061720 | 2017619-01 | Methyl iodide | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-7-061720 | 2017619-01 | trans-1,4-Dichloro-2-butene | 6/19/2020 | 5 | Y | n | u | UJ | 5.0 | 1.8 | ug/L |
| TB-7-061720 | 2017619-01 | Pentachloroethane | 6/19/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| TB-7-061720 | 2017619-01 | Bromomethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-7-061720 | 2017619-01 | Benzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-7-061720 | 2017619-01 | sec-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-7-061720 | 2017619-01 | Bromochloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-7-061720 | 2017619-01 | 2-Chlorotoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | n-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | tert-Butylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-7-061720 | 2017619-01 | Carbon tetrachloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | Chlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | Chloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | Chloroform | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | Chloromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-7-061720 | 2017619-01 | Bromobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | cis-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | Allyl chloride | 6/19/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-7-061720 | 2017619-01 | t-Amyl Methyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-7-061720 | 2017619-01 | t-Butyl alcohol | 6/19/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-7-061720 | 2017619-01 | Carbon disulfide | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-7-061720 | 2017619-01 | Diethyl ether | 6/19/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| TB-7-061720 | 2017619-01 | Ethyl methacrylate | 6/19/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-7-061720 | 2017619-01 | Ethyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-7-061720 | 2017619-01 | Hexachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-7-061720 | 2017619-01 | 2-Hexanone | 6/19/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-7-061720 | 2017619-01 | Methacrylonitrile | 6/19/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-7-061720 | 2017619-01 | Acrylonitrile | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |

SDG: 2017619

| 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-7-061720 | 2017619-01 | Methyl isobutyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-7-061720 | 2017619-01 | Methyl methacrylate | 6/19/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-7-061720 | 2017619-01 | Propionitrile | 6/19/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-7-061720 | 2017619-01 | Trichlorofluoromethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | p- & m-Xylenes | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-7-061720 | 2017619-01 | o-Xylene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-7-061720 | 2017619-01 | Chloroacetonitrile | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| TB-7-061720 | 2017619-01 | 1-Chlorobutane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| TB-7-061720 | 2017619-01 | 1,1-Dichloropropanone | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| TB-7-061720 | 2017619-01 | Methyl acrylate | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| TB-7-061720 | 2017619-01 | Nitrobenzene | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| TB-7-061720 | 2017619-01 | 2-Nitropropane | 6/19/2020 | 0 | Y | y | v | | | | ug/L |
| TB-7-061720 | 2017619-01 | Methyl ethyl ketone | 6/19/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-7-061720 | 2017619-01 | trans-1,3-Dichloropropene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-7-061720 | 2017619-01 | Hexachlorobutadiene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-7-061720 | 2017619-01 | Isopropylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | p-Isopropyltoluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | Tetrahydrofuran | 6/19/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-7-061720 | 2017619-01 | Acetone | 6/19/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-7-061720 | 2017619-01 | Ethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-7-061720 | 2017619-01 | Methylene chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-7-061720 | 2017619-01 | Methyl t-butyl ether | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | Naphthalene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-7-061720 | 2017619-01 | n-Propylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-7-061720 | 2017619-01 | Styrene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |

SDG: 2017619

| 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-7-061720 | 2017619-01 | 1,1,1,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-7-061720 | 2017619-01 | Trichloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-7-061720 | 2017619-01 | Vinyl chloride | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-7-061720 | 2017619-01 | 1,3,5-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2,4-Trimethylbenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1,2,2-Tetrachloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2,3-Trichloropropane | 6/19/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1,2-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-7-061720 | 2017619-01 | Tetrachloroethene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-7-061720 | 2017619-01 | Toluene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2,3-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-7-061720 | 2017619-01 | 1,1,1-Trichloroethane | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-7-061720 | 2017619-01 | 1,2,4-Trichlorobenzene | 6/19/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

| Analytical Method | | EPA-8270C | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-24-1 | 2017619-10 | 1,4-Dioxane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.16 | ug/L |

| Analytical Method | | SM-2320B | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-7-061720 | 2017619-07 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| EB-7-061720 | 2017619-07 | Bicarbonate | 6/23/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| EB-7-061720 | 2017619-07 | Total Alkalinity as CaCO3 | 6/23/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| MW-22-1 | 2017619-06 | Bicarbonate | 6/23/2020 | 270 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-22-1 | 2017619-06 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-22-1 | 2017619-06 | Total Alkalinity as CaCO3 | 6/23/2020 | 220 | Y | y | v | | 4.1 | 4.1 | mg/L |

SDG: 2017619

| Analytical Method | | SM-2320B | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-22-2 | 2017619-05 | Bicarbonate | 6/23/2020 | 230 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-22-2 | 2017619-05 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-22-2 | 2017619-05 | Total Alkalinity as CaCO3 | 6/23/2020 | 190 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-22-3 | 2017619-04 | Bicarbonate | 6/23/2020 | 170 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-22-3 | 2017619-04 | Total Alkalinity as CaCO3 | 6/23/2020 | 140 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-22-3 | 2017619-04 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-22-4 | 2017619-03 | Bicarbonate | 6/23/2020 | 170 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-22-4 | 2017619-03 | Total Alkalinity as CaCO3 | 6/23/2020 | 140 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-22-4 | 2017619-03 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-22-S | 2017619-02 | Total Alkalinity as CaCO3 | 6/23/2020 | 95 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-22-S | 2017619-02 | Bicarbonate | 6/23/2020 | 76 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-22-S | 2017619-02 | Carbonate | 6/23/2020 | 20 | Y | y | v | | 2.5 | 2.5 | mg/L |
| MW-24-1 | 2017619-10 | Total Alkalinity as CaCO3 | 6/23/2020 | 180 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-24-1 | 2017619-10 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-24-1 | 2017619-10 | Bicarbonate | 6/23/2020 | 220 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-24-2 | 2017619-09 | Total Alkalinity as CaCO3 | 6/23/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-24-2 | 2017619-09 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-24-2 | 2017619-09 | Bicarbonate | 6/23/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-24-5 | 2017619-08 | Total Alkalinity as CaCO3 | 6/23/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-24-5 | 2017619-08 | Carbonate | 6/23/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-24-5 | 2017619-08 | Bicarbonate | 6/23/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 14, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017925

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-10-062220 | 2017925-01 | Water | 06/22/20 |
| MW-11-5 | 2017925-02 | Water | 06/22/20 |
| MW-11-4 | 2017925-03 | Water | 06/22/20 |
| MW-11-3 | 2017925-04 | Water | 06/22/20 |
| Dup-5-2Q2020 | 2017925-05 | Water | 06/22/20 |
| MW-11-2 | 2017925-06 | Water | 06/22/20 |
| MW-11-1 | 2017925-07 | Water | 06/22/20 |
| EB-10-062220 | 2017925-08 | Water | 06/22/20 |
| MW-14-5 | 2017925-09 | Water | 06/22/20 |
| MW-14-4 | 2017925-10 | Water | 06/22/20 |
| MW-14-2 | 2017925-11 | Water | 06/22/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/18/20 | Pentachloroethane | 76.0 | All samples in SDG 2017925 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|--------------|------|----------------------------|----------------------|--------|
| 06/23/20 (23JUN31) | Bromomethane | 38.7 | All samples in SDG 2017925 | UJ (all non-detects) | P |

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|------------------------------------|--------------|-------------------------------|--|--------|
| 06/23/20 (22JUN32) | Methyl iodide Pentachloroethane | 80.7 91.4 | All samples in SDG 2017925 | 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-10-062220 was identified as a trip blank. No contaminants were found.

Sample EB-10-062220 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-11-3 and Dup-5-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/L) | | RPD |
|-------------------------|----------------------|--------------|----------------|
| | MW-11-3 | Dup-5-2Q2020 | |
| Methyl-tert-butyl ether | 0.19 | 0.14U | Not calculable |
| Styrene | 0.16 | 0.21 | 27 |

XI. Internal Standards

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

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2017925**

| Sample | Compound | Flag | A or P | Reason |
|--|--|--|--------|---------------------------------------|
| TB-10-062220 MW-11-5 MW-11-4 MW-11-3 Dup-5-2Q2020 MW-11-2 MW-11-1 EB-10-062220 MW-14-5 MW-14-4 MW-14-2 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-10-062220 MW-11-5 MW-11-4 MW-11-3 Dup-5-2Q2020 MW-11-2 MW-11-1 EB-10-062220 MW-14-5 MW-14-4 MW-14-2 | Bromomethane Methyl iodide Pentachloroethane | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

**NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2017925**

No Sample Data Qualified in this SDG

LDC #: 48752B1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2017925

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/17/20

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/M | RSR ≤ 20%. Y ² CV ≤ 30% |
| IV. | Continuing calibration | M | CV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB=1. EB=8 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | M | D=1+5 |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|------------|--------|----------|
| 1 | TB-10-062220 | 2017925-01 | Water | 06/22/20 |
| 2 | MW-11-5 | 2017925-02 | Water | 06/22/20 |
| 3 | MW-11-4 | 2017925-03 | Water | 06/22/20 |
| 4 | MW-11-3 | 2017925-04 | Water | 06/22/20 |
| 5 | Dup-5-2Q2020 | 2017925-05 | Water | 06/22/20 |
| 6 | MW-11-2 | 2017925-06 | Water | 06/22/20 |
| 7 | MW-11-1 | 2017925-07 | Water | 06/22/20 |
| 8 | EB-10-062220 | 2017925-08 | Water | 06/22/20 |
| 9 | MW-14-5 | 2017925-09 | Water | 06/22/20 |
| 10 | MW-14-4 | 2017925-10 | Water | 06/22/20 |
| 11 | MW-14-2 | 2017925-11 | Water | 06/22/20 |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC#:48752B1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

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

METHOD: GCMS VOA (EPA Method 524.2)

| Compound | Concentration (ug/L) | | RPD |
|----------|----------------------|-------|-----|
| | 4 | 5 | |
| LL | 0.19 | 0.14U | NC |
| FF | 0.16 | 0.21 | 27 |

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2020\48752B1_JPL.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017925

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-11-5 | 2017925-02 | Water | 06/22/20 |
| MW-11-4 | 2017925-03 | Water | 06/22/20 |
| MW-11-3 | 2017925-04 | Water | 06/22/20 |
| Dup-5-2Q2020 | 2017925-05 | Water | 06/22/20 |
| MW-11-2 | 2017925-06 | Water | 06/22/20 |
| MW-11-1 | 2017925-07 | Water | 06/22/20 |
| EB-10-062220 | 2017925-08 | Water | 06/22/20 |
| MW-14-5 | 2017925-09 | Water | 06/22/20 |
| MW-14-4 | 2017925-10 | Water | 06/22/20 |
| MW-14-2 | 2017925-11 | Water | 06/22/20 |
| MW-11-5MS | 2017925-02MS | Water | 06/22/20 |
| MW-11-5MSD | 2017925-02MSD | Water | 06/22/20 |
| MW-11-5DUP | 2017925-02DUP | Water | 06/22/20 |
| EB-10-062220MS | 2017925-08MS | Water | 06/22/20 |
| EB-10-062220MSD | 2017925-08MSD | Water | 06/22/20 |
| EB-10-062220DUP | 2017925-08DUP | Water | 06/22/20 |

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

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

IV. ICP Interference Check Sample Analysis

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

V. Laboratory Blanks

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

VI. Field Blanks

Sample EB-10-062220 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|--------------|-------------------|-------------------------|
| EB-10-062220 | Calcium Sodium | 0.089 mg/L 0.18 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

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

| Spike ID (Associated Samples) | Analyte | MS (%R) (Limits) | MSD (%R) (Limits) | Flag | A or P |
|---|---------|---------------------|----------------------|-----------------|--------|
| MW-11-5MS/MSD (MW-11-5 MW-11-4 MW-11-3 Dup-5-2Q2020 MW-11-2 MW-11-1 MW-14-5 MW-14-4 MW-14-2) | Iron | 131 (75-125) | - | J (all detects) | A |
| MW-11-5MS/MSD (EB-10-062220) | Iron | 131 (75-125) | - | NA | - |

Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

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

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

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

XI. Field Duplicates

Samples MW-11-3 and Dup-5-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|----------|---------------|--------------|----------------|
| | MW-11-3 | Dup-5-2Q2020 | |
| Arsenic | 1.7 ug/L | 1.6 ug/L | 6 |
| Calcium | 20 mg/L | 21 mg/L | 5 |
| Chromium | 6.7 ug/L | 0.5U ug/L | Not calculable |
| Iron | 1100 ug/L | 95 ug/L | 168 |
| Lead | 0.22 ug/L | 0.1U ug/L | 75 |

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|-----|
| | MW-11-3 | Dup-5-2Q2020 | |
| Magnesium | 7.8 mg/L | 8.0 mg/L | 3 |
| Potassium | 1.9 mg/L | 2.0 mg/L | 5 |
| Sodium | 27 mg/L | 27 mg/L | 0 |

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

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

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

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

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2017925**

| Sample | Analyte | Flag | A or P | Reason |
|--|---------|-----------------|--------|--|
| MW-11-5 MW-11-4 MW-11-3 Dup-5-2Q2020 MW-11-2 MW-11-1 MW-14-5 MW-14-4 MW-14-2 | Iron | J (all detects) | A | Matrix spike/Matrix spike duplicate (%R) |

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2017925**

No Sample Data Qualified in this SDG

LDC #: 48752B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

SDG #: 2017925

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: 4

METHOD: Metals (EPA Method 200.7/200.8)

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

| | Validation Area | | Comments |
|-------|--|-----|------------------|
| I. | Sample receipt/Technical holding times | A/A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | A | |
| VI. | Field Blanks | SW | EB=7 |
| VII. | Matrix Spike/Matrix Spike Duplicates | SW | (11,12), (14,15) |
| VIII. | Duplicate sample analysis | A | 13,16 |
| IX. | Serial Dilution | N | |
| X. | Laboratory control samples | A | LCS |
| XI. | Field Duplicates | SW | (3,4) |
| 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-11-5 | 2017925-02 | Water | 06/22/20 |
| 2 | MW-11-4 | 2017925-03 | Water | 06/22/20 |
| 3 | MW-11-3 | 2017925-04 | Water | 06/22/20 |
| 4 | Dup-5-2Q2020 | 2017925-05 | Water | 06/22/20 |
| 5 | MW-11-2 | 2017925-06 | Water | 06/22/20 |
| 6 | MW-11-1 | 2017925-07 | Water | 06/22/20 |
| 7 | EB-10-062220 | 2017925-08 | Water | 06/22/20 |
| 8 | MW-14-5 | 2017925-09 | Water | 06/22/20 |
| 9 | MW-14-4 | 2017925-10 | Water | 06/22/20 |
| 10 | MW-14-2 | 2017925-11 | Water | 06/22/20 |
| 11 | MW-11-5MS | 2017925-02MS | Water | 06/22/20 |
| 12 | MW-11-5MSD | 2017925-02MSD | Water | 06/22/20 |
| 13 | MW-11-5DUP | 2017925-02DUP | Water | 06/22/20 |
| 14 | EB-10-062220MS | 2017925-08MS | Water | 06/22/20 |
| 15 | EB-10-062220MSD | 2017925-08MSD | Water | 06/22/20 |

LDC #: 48752B4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20


SDG #: 2017925

Level III

Page: 2 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: 

METHOD: Metals (EPA Method 200.7/200.8)

| | Client ID | Lab ID | Matrix | Date |
|----|-----------------|---------------|--------|----------|
| 16 | EB-10-062220DUP | 2017925-08DUP | Water | 06/22/20 |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |

Notes: _____

Field Blanks

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

Blank units: ug/L, mg/L

Associated sample units: ug/L, mg/L

Sampling Date: 6/22/20

Associated Samples: none

| | | | Sample Identification | | | | | | | | | | |
|-----------|----------|------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Blank ID | Blank Conc | Action Level | | | | | | | | | | |
| Ca (mg/L) | | 0.089 | | | | | | | | | | | |
| Na (mg/L) | | 0.18 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The action level, when applicable, is established at 5X the highest concentration.

Field Duplicates

Method: Metals

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|-----------------|----------------------|------|-------------------|---------------------------|
| | 3 | 4 | | |
| Arsenic (ug/L) | 1.7 | 1.6 | 6 | |
| Calcium | 20 | 21 | 5 | |
| Chromium (ug/L) | 6.7 | 0.5U | 172 NC | |
| Iron (ug/L) | 1100 | 95 | 168 | |
| Lead (ug/L) | 0.22 | 0.1U | 75 | |
| Magnesium | 7.8 | 8.0 | 3 | |
| Potassium | 1.9 | 2.0 | 5 | |
| Sodium | 27 | 27 | 0 | |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 19, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2017925

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-11-5 | 2017925-02 | Water | 06/22/20 |
| MW-11-4 | 2017925-03 | Water | 06/22/20 |
| MW-11-3 | 2017925-04 | Water | 06/22/20 |
| Dup-5-2Q2020 | 2017925-05 | Water | 06/22/20 |
| MW-11-2 | 2017925-06 | Water | 06/22/20 |
| MW-11-1 | 2017925-07 | Water | 06/22/20 |
| EB-10-062220 | 2017925-08 | Water | 06/22/20 |
| MW-14-5 | 2017925-09 | Water | 06/22/20 |
| MW-14-4 | 2017925-10 | Water | 06/22/20 |
| MW-14-2 | 2017925-11 | Water | 06/22/20 |
| MW-11-5MS | 2017925-02MS | Water | 06/22/20 |
| MW-11-5MSD | 2017925-02MSD | Water | 06/22/20 |
| MW-11-5DUP | 2017925-02DUP | Water | 06/22/20 |
| MW-11-1MS | 2017925-07MS | Water | 06/22/20 |
| MW-11-1MSD | 2017925-07MSD | Water | 06/22/20 |
| MW-11-1DUP | 2017925-07DUP | Water | 06/22/20 |
| MW-14-2DUP | 2017925-11DUP | Water | 06/22/20 |

Introduction

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

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

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

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|--------------|---------|--|---|-----------------|--------|
| MW-11-5 | pH | 54.333 hours | 48 hours | J (all detects) | P |
| MW-11-4 | pH | 55.300 hours | 48 hours | J (all detects) | P |
| MW-11-3 | pH | 53.683 hours | 48 hours | J (all detects) | P |
| Dup-5-2Q2020 | pH | 53.567 hours | 48 hours | J (all detects) | P |
| MW-11-2 | pH | 52.933 hours | 48 hours | J (all detects) | P |
| MW-11-1 | pH | 52.317 hours | 48 hours | J (all detects) | P |
| EB-10-062220 | pH | 50.433 hours | 48 hours | J (all detects) | P |
| MW-14-5 | pH | 51.300 hours | 48 hours | J (all detects) | P |
| MW-14-4 | pH | 50.933 hours | 48 hours | J (all detects) | P |
| MW-14-2 | pH | 50.317 hours | 48 hours | J (all detects) | P |

II. Initial Calibration

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

III. Continuing Calibration

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

IV. Laboratory Blanks

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

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------------------------------|-----------------------------|---|
| PB (prep blank) | Chloride Hexavalent chromium | 0.139 mg/L 0.000033 mg/L | All samples in SDG 2017925 |
| ICB/CCB | Chloride Sulfate | 0.193 mg/L 0.365 mg/L | All samples in SDG 2017925 |
| ICB/CCB | Hexavalent chromium | 0.000052 mg/L | MW-11-5 MW-11-4 MW-11-3 Dup-5-2Q2020 |
| ICB/CCB | Hexavalent chromium | 0.000068 mg/L | MW-11-2 MW-11-1 EB-10-062220 MW-14-5 MW-14-4 MW-14-2 |

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

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|--------------|---------------------|------------------------|------------------------------|
| MW-11-5 | Hexavalent chromium | 0.000068 mg/L | 0.000068U mg/L |
| MW-11-4 | Hexavalent chromium | 0.00006 mg/L | 0.00006U mg/L |
| MW-11-3 | Hexavalent chromium | 0.00009 mg/L | 0.00009U mg/L |
| Dup-5-2Q2020 | Hexavalent chromium | 0.000041 mg/L | 0.000041U mg/L |
| MW-11-2 | Hexavalent chromium | 0.000047 mg/L | 0.000047U mg/L |
| MW-11-1 | Hexavalent chromium | 0.000053 mg/L | 0.000053U mg/L |
| EB-10-062220 | Hexavalent chromium | 0.000059 mg/L | 0.000059U mg/L |
| MW-14-5 | Hexavalent chromium | 0.00004 mg/L | 0.00004U mg/L |
| MW-14-2 | Hexavalent chromium | 0.00011 mg/L | 0.00011U mg/L |

V. Field Blanks

Sample EB-10-062220 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|--------------|---|---------------------------|
| EB-10-062220 | Total dissolved solids Hexavalent chromium | 5.3 mg/L 0.000059 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

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

VII. Duplicate Sample Analysis

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

VIII. Laboratory Control Samples

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

IX. Field Duplicates

Samples MW-11-3 and Dup-5-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|-------------------------|---------------|---------------|----------------|
| | MW-11-3 | Dup-5-2Q2020 | |
| Alkalinity, bicarbonate | 130 mg/L | 130 mg/L | 0 |
| Alkalinity, carbonate | 3.1 mg/L | 3.7 mg/L | 18 |
| Alkalinity, total | 120 mg/L | 120 mg/L | 0 |
| Chloride | 12 mg/L | 12 mg/L | 0 |
| Hexavalent chromium | 0.000090 mg/L | 0.000041 mg/L | 75 |
| Nitrate as N | 0.024U mg/L | 0.082 mg/L | Not calculable |
| pH | 8.36 pH unit | 8.37 pH unit | 0 |
| Sulfate | 9.2 mg/L | 9.4 mg/L | 2 |
| Total dissolved solids | 160 mg/L | 160 mg/L | 0 |

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

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

Due to technical holding time, data were qualified as estimated in ten samples.

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

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

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2017925**

| Sample | Analyte | Flag | A or P | Reason |
|--|---------|-----------------|--------|-------------------------|
| MW-11-5 MW-11-4 MW-11-3 Dup-5-2Q2020 MW-11-2 MW-11-1 EB-10-062220 MW-14-5 MW-14-4 MW-14-2 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2017925**

| Sample | Analyte | Modified Final Concentration | A or P |
|--------------|---------------------|------------------------------|--------|
| MW-11-5 | Hexavalent chromium | 0.000068U mg/L | A |
| MW-11-4 | Hexavalent chromium | 0.00006U mg/L | A |
| MW-11-3 | Hexavalent chromium | 0.00009U mg/L | A |
| Dup-5-2Q2020 | Hexavalent chromium | 0.000041U mg/L | A |
| MW-11-2 | Hexavalent chromium | 0.000047U mg/L | A |
| MW-11-1 | Hexavalent chromium | 0.000053U mg/L | A |
| EB-10-062220 | Hexavalent chromium | 0.000059U mg/L | A |
| MW-14-5 | Hexavalent chromium | 0.00004U mg/L | A |
| MW-14-2 | Hexavalent chromium | 0.00011U mg/L | A |

LDC #: 48752B6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20


SDG #: 2017925

Level III

Page: 1 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: 

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

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

| | Validation Area | | Comments |
|-------|--|------|---|
| I. | Sample receipt/Technical holding times | A/SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW | EB=7 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | (11,12),(14,15), From SDG # 2018049 (MW-14-3MS/MSD) |
| VII. | Duplicate sample analysis | A | 13,16,17, From SDG # 2018049 (MW-14-3DUP) |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | SW | (3,4) |
| X. | Sample result verification | N | |
| XI. | Overall assessment of data | A | |

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

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-11-5 | 2017925-02 | Water | 06/22/20 |
| 2 | MW-11-4 | 2017925-03 | Water | 06/22/20 |
| 3 | MW-11-3 | 2017925-04 | Water | 06/22/20 |
| 4 | Dup-5-2Q2020 | 2017925-05 | Water | 06/22/20 |
| 5 | MW-11-2 | 2017925-06 | Water | 06/22/20 |
| 6 | MW-11-1 | 2017925-07 | Water | 06/22/20 |
| 7 | EB-10-062220 | 2017925-08 | Water | 06/22/20 |
| 8 | MW-14-5 | 2017925-09 | Water | 06/22/20 |
| 9 | MW-14-4 | 2017925-10 | Water | 06/22/20 |
| 10 | MW-14-2 | 2017925-11 | Water | 06/22/20 |
| 11 | MW-11-5MS | 2017925-02MS | Water | 06/22/20 |
| 12 | MW-11-5MSD | 2017925-02MSD | Water | 06/22/20 |
| 13 | MW-11-5DUP | 2017925-02DUP | Water | 06/22/20 |
| 14 | MW-11-1MS | 2017925-07MS | Water | 06/22/20 |
| 15 | MW-11-1MSD | 2017925-07MSD | Water | 06/22/20 |
| 16 | MW-11-1DUP | 2017925-07DUP | Water | 06/22/20 |

LDC #: 48752B6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

SDG #: 2017925

Level III

Page: 12 of 2

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: [Signature]

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

| | Client ID | Lab ID | Matrix | Date |
|----|------------|---------------|--------|----------|
| 17 | MW-14-2DUP | 2017925-11DUP | Water | 06/22/20 |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |

Notes: _____

Holding Time

METHOD: Inorganics

All samples were properly preserved and within the required holding time with the following exceptions:

| | | Method: EPA 150.1 Analyte: pH Holding Time: 48hrs | | | |
|-----------|-----------------|---|--|-----------|--------|
| Sample ID | Sampling Date | Analysis Date | Total Time from Collection to Analysis (hours) | Qualifier | Det/ND |
| 1 | 6/22/2020 9:30 | 6/24/2020 15:50 | 54.333 | J/UJ/P | det |
| 2 | 6/22/2020 8:45 | 6/24/2020 16:03 | 55.300 | J/UJ/P | det |
| 3 | 6/22/2020 10:30 | 6/24/2020 16:11 | 53.683 | J/UJ/P | det |
| 4 | 6/22/2020 10:45 | 6/24/2020 16:19 | 53.567 | J/UJ/P | det |
| 5 | 6/22/2020 11:30 | 6/24/2020 16:26 | 52.933 | J/UJ/P | det |
| 6 | 6/22/2020 12:15 | 6/24/2020 16:34 | 52.317 | J/UJ/P | det |
| 7 | 6/22/2020 14:15 | 6/24/2020 16:41 | 50.433 | J/UJ/P | det |
| 8 | 6/22/2020 13:30 | 6/24/2020 16:48 | 51.300 | J/UJ/P | det |
| 9 | 6/22/2020 14:00 | 6/24/2020 16:56 | 50.933 | J/UJ/P | det |
| 10 | 6/22/2020 14:45 | 6/24/2020 17:04 | 50.317 | J/UJ/P | det |

Preservation

| Sample ID | Preservation | Preservation Requirement (pH) | Qualifier | Det/ND |
|-----------|--------------|----------------------------------|-----------|--------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

METHOD: Inorganics

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: all

| | | | | Sample Identification | | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|---------|---------|----------|----------|----------|----------|---------|---------|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | |
| Cl | 0.139 | | 0.695 | | | | | | | | | | |
| Cl | | 0.193 | 0.965 | | | | | | | | | | |
| SO4 | | 0.365 | 1.825 | | | | | | | | | | |
| Cr6+ | 0.000033 | | 0.000165 | 0.000068 | 0.00006 | 0.00009 | 0.000041 | 0.000047 | 0.000053 | 0.000059 | 0.00004 | 0.00011 | |

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 1 to 4

| | | | | Sample Identification | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|-----------|-----------|-----------|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | 1 | 2 | 3 | 4 | | | | |
| Cr6+ | | 0.000052 | 0.00026 | see above | see above | see above | see above | | | | |

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 5 to 10

| | | | | Sample Identification | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|-----------|-----------|-----------|-----------|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | 5 | 6 | 7 | 8 | 10 | | |
| Cr6+ | | 0.000068 | 0.00034 | see above | see above | see above | see above | see above | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

Field Blanks

METHOD: Inorganics

Blank units: mg/L

Associated sample units: mg/L

Sampling Date: 6/22/20

Associated Samples: none

| | | | Sample Identification | | | | | | | | | | |
|---------|----------|------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Blank ID | Blank Conc | Action Level | | | | | | | | | | |
| TDS | 7 | 5.3 | | | | | | | | | | | |
| Cr6+ | | 0.000059 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The action level, when applicable, is established at 5X the highest concentration.

METHOD: Inorganics

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|------------------------|----------------------|----------|--------------------------|---------------------------|
| | 3 | 4 | | |
| Alkalinity Bicarbonate | 130 | 130 | 0 | |
| Alkalinity Carbonate | 3.1 | 3.7 | 18 | |
| Alkalinity Total | 120 | 120 | 0 | |
| Chloride | 12 | 12 | 0 | |
| Hexavalent Chromium | 0.000090 | 0.000041 | 75 | |
| Nitrate-N | 0.024 U | 0.082 | 109 <i>AC</i> | |
| pH (pH unit) | 8.36 | 8.37 | 0 | |
| Sulfate | 9.2 | 9.4 | 2 | |
| Total Dissolved Solids | 160 | 160 | 0 | |

NASA JPL, 2Q2020 - LDC# 48752B

SDG: 2017925

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-150.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-5-2Q2020 | 2017925-05 | pH | 6/24/2020 | 8.37 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| EB-10-062220 | 2017925-08 | pH | 6/24/2020 | 4.99 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-11-1 | 2017925-07 | pH | 6/24/2020 | 7.79 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-11-2 | 2017925-06 | pH | 6/24/2020 | 7.94 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-11-3 | 2017925-04 | pH | 6/24/2020 | 8.36 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-11-4 | 2017925-03 | pH | 6/24/2020 | 8.27 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-11-5 | 2017925-02 | pH | 6/24/2020 | 8.15 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-14-2 | 2017925-11 | pH | 6/24/2020 | 7.47 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-14-4 | 2017925-10 | pH | 6/24/2020 | 7.99 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| MW-14-5 | 2017925-09 | pH | 6/24/2020 | 8.31 | Y | y | v | J | 0.05 | 0.05 | pH Units |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|--------------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-160.1 | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-5-2Q2020 | 2017925-05 | Total Dissolved Solids @ 180 C | 6/25/2020 | 160 | Y | y | v | | 10 | 5.0 | mg/L |
| EB-10-062220 | 2017925-08 | Total Dissolved Solids @ 180 C | 6/25/2020 | 5.3 | Y | y | v j | | 6.7 | 3.3 | mg/L |
| MW-11-1 | 2017925-07 | Total Dissolved Solids @ 180 C | 6/25/2020 | 410 | Y | y | v | | 20 | 10 | mg/L |
| MW-11-2 | 2017925-06 | Total Dissolved Solids @ 180 C | 6/25/2020 | 300 | Y | y | v | | 20 | 10 | mg/L |
| MW-11-3 | 2017925-04 | Total Dissolved Solids @ 180 C | 6/25/2020 | 160 | Y | y | v | | 10 | 5.0 | mg/L |
| MW-11-4 | 2017925-03 | Total Dissolved Solids @ 180 C | 6/25/2020 | 170 | Y | y | v | | 10 | 5.0 | mg/L |
| MW-11-5 | 2017925-02 | Total Dissolved Solids @ 180 C | 6/25/2020 | 210 | Y | y | v | | 20 | 10 | mg/L |
| MW-14-2 | 2017925-11 | Total Dissolved Solids @ 180 C | 6/25/2020 | 820 | Y | y | v | | 50 | 25 | mg/L |
| MW-14-4 | 2017925-10 | Total Dissolved Solids @ 180 C | 6/25/2020 | 440 | Y | y | v | | 33 | 17 | mg/L |
| MW-14-5 | 2017925-09 | Total Dissolved Solids @ 180 C | 6/25/2020 | 210 | Y | y | v | | 20 | 10 | mg/L |

SDG: 2017925

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Iron | 6/30/2020 | 95 | Y | y | v | J | 50 | 30 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Magnesium | 6/30/2020 | 8 | Y | y | v | | 0.050 | 0.019 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Sodium | 6/30/2020 | 27 | Y | y | v | | 0.50 | 0.051 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Potassium | 6/30/2020 | 2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Calcium | 6/30/2020 | 21 | Y | y | v | | 0.10 | 0.014 | mg/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Potassium | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Iron | 6/30/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Sodium | 6/30/2020 | 0.18 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Calcium | 6/30/2020 | 0.089 | Y | y | v j | | 0.10 | 0.014 | mg/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Magnesium | 6/30/2020 | 0.05 | Y | n | u | | 0.050 | 0.019 | mg/L |
| MW-11-1 | 2017925-07 | Total Recoverable Potassium | 6/30/2020 | 3.2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-11-1 | 2017925-07 | Total Recoverable Calcium | 6/30/2020 | 66 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-11-1 | 2017925-07 | Total Recoverable Magnesium | 6/30/2020 | 20 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-11-1 | 2017925-07 | Total Recoverable Iron | 6/30/2020 | 210 | Y | y | v | J | 50 | 30 | ug/L |
| MW-11-1 | 2017925-07 | Total Recoverable Sodium | 6/30/2020 | 28 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-11-2 | 2017925-06 | Total Recoverable Calcium | 6/30/2020 | 51 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-11-2 | 2017925-06 | Total Recoverable Magnesium | 6/30/2020 | 19 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-11-2 | 2017925-06 | Total Recoverable Potassium | 6/30/2020 | 2.9 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-11-2 | 2017925-06 | Total Recoverable Iron | 6/30/2020 | 330 | Y | y | v | J | 50 | 30 | ug/L |
| MW-11-2 | 2017925-06 | Total Recoverable Sodium | 6/30/2020 | 23 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-11-3 | 2017925-04 | Total Recoverable Iron | 6/30/2020 | 1100 | Y | y | v | J | 50 | 30 | ug/L |
| MW-11-3 | 2017925-04 | Total Recoverable Calcium | 6/30/2020 | 20 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-11-3 | 2017925-04 | Total Recoverable Magnesium | 6/30/2020 | 7.8 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-11-3 | 2017925-04 | Total Recoverable Potassium | 6/30/2020 | 1.9 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-11-3 | 2017925-04 | Total Recoverable Sodium | 6/30/2020 | 27 | Y | y | v | | 0.50 | 0.051 | mg/L |

SDG: 2017925

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-4 | 2017925-03 | Total Recoverable Iron | 6/30/2020 | 110 | Y | y | v | J | 50 | 30 | ug/L |
| MW-11-4 | 2017925-03 | Total Recoverable Sodium | 6/30/2020 | 26 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-11-4 | 2017925-03 | Total Recoverable Calcium | 6/30/2020 | 14 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-11-4 | 2017925-03 | Total Recoverable Magnesium | 6/30/2020 | 12 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-11-4 | 2017925-03 | Total Recoverable Potassium | 6/30/2020 | 2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-11-5 | 2017925-02 | Total Recoverable Calcium | 6/30/2020 | 21 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-11-5 | 2017925-02 | Total Recoverable Potassium | 6/30/2020 | 1.1 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-11-5 | 2017925-02 | Total Recoverable Magnesium | 6/30/2020 | 2.4 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-11-5 | 2017925-02 | Total Recoverable Iron | 6/30/2020 | 2800 | Y | y | v | J | 50 | 30 | ug/L |
| MW-11-5 | 2017925-02 | Total Recoverable Sodium | 6/30/2020 | 48 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-14-2 | 2017925-11 | Total Recoverable Calcium | 6/30/2020 | 140 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-14-2 | 2017925-11 | Total Recoverable Potassium | 6/30/2020 | 2.5 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-14-2 | 2017925-11 | Total Recoverable Sodium | 6/30/2020 | 41 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-14-2 | 2017925-11 | Total Recoverable Magnesium | 6/30/2020 | 45 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-14-2 | 2017925-11 | Total Recoverable Iron | 6/30/2020 | 150 | Y | y | v | J | 50 | 30 | ug/L |
| MW-14-4 | 2017925-10 | Total Recoverable Potassium | 6/30/2020 | 2.2 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-14-4 | 2017925-10 | Total Recoverable Calcium | 6/30/2020 | 67 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-14-4 | 2017925-10 | Total Recoverable Magnesium | 6/30/2020 | 23 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-14-4 | 2017925-10 | Total Recoverable Iron | 6/30/2020 | 100 | Y | y | v | J | 50 | 30 | ug/L |
| MW-14-4 | 2017925-10 | Total Recoverable Sodium | 6/30/2020 | 31 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-14-5 | 2017925-09 | Total Recoverable Iron | 6/30/2020 | 460 | Y | y | v | J | 50 | 30 | ug/L |
| MW-14-5 | 2017925-09 | Total Recoverable Magnesium | 6/30/2020 | 11 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-14-5 | 2017925-09 | Total Recoverable Sodium | 6/30/2020 | 31 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-14-5 | 2017925-09 | Total Recoverable Potassium | 6/30/2020 | 1.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-14-5 | 2017925-09 | Total Recoverable Calcium | 6/30/2020 | 17 | Y | y | v | | 0.10 | 0.014 | mg/L |

SDG: 2017925

| 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-5-2Q2020 | 2017925-05 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Chromium | 6/26/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Total Recoverable Arsenic | 6/26/2020 | 1.6 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| EB-10-062220 | 2017925-08 | Total Recoverable Chromium | 6/26/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-11-1 | 2017925-07 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-11-1 | 2017925-07 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-11-1 | 2017925-07 | Total Recoverable Chromium | 6/26/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-11-2 | 2017925-06 | Total Recoverable Chromium | 6/26/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-11-2 | 2017925-06 | Total Recoverable Arsenic | 6/26/2020 | 1 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-11-2 | 2017925-06 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-11-3 | 2017925-04 | Total Recoverable Lead | 6/26/2020 | 0.22 | Y | y | v j | | 1.0 | 0.10 | ug/L |
| MW-11-3 | 2017925-04 | Total Recoverable Chromium | 6/26/2020 | 6.7 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-11-3 | 2017925-04 | Total Recoverable Arsenic | 6/26/2020 | 1.7 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-11-4 | 2017925-03 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-11-4 | 2017925-03 | Total Recoverable Chromium | 6/26/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-11-4 | 2017925-03 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-11-5 | 2017925-02 | Total Recoverable Arsenic | 6/26/2020 | 5.6 | Y | y | v | | 2.0 | 0.70 | ug/L |
| MW-11-5 | 2017925-02 | Total Recoverable Chromium | 6/26/2020 | 7.4 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-11-5 | 2017925-02 | Total Recoverable Lead | 6/26/2020 | 1.6 | Y | y | v | | 1.0 | 0.10 | ug/L |
| MW-14-2 | 2017925-11 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-14-2 | 2017925-11 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-14-2 | 2017925-11 | Total Recoverable Chromium | 6/26/2020 | 1.3 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-14-4 | 2017925-10 | Total Recoverable Chromium | 6/26/2020 | 3.3 | Y | y | v | | 3.0 | 0.50 | ug/L |

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| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-4 | 2017925-10 | Total Recoverable Arsenic | 6/26/2020 | 0.89 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-14-4 | 2017925-10 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-14-5 | 2017925-09 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-14-5 | 2017925-09 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-14-5 | 2017925-09 | Total Recoverable Chromium | 6/26/2020 | 3.9 | 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-5-2Q2020 | 2017925-05 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| EB-10-062220 | 2017925-08 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-11-1 | 2017925-07 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-11-2 | 2017925-06 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-11-3 | 2017925-04 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-11-4 | 2017925-03 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-11-5 | 2017925-02 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-14-2 | 2017925-11 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | J | 0.0002 | 0.0000 | mg/L |
| MW-14-4 | 2017925-10 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-14-5 | 2017925-09 | Hexavalent Chromium | 6/24/2020 | ##### | Y | y | v j | 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 |
| Dup-5-2Q2020 | 2017925-05 | Nitrate as N | 6/23/2020 | 0.082 | Y | y | v j | | 0.10 | 0.024 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Sulfate | 6/23/2020 | 9.4 | Y | y | v | | 1.0 | 0.14 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Chloride | 6/23/2020 | 12 | Y | y | v | | 0.50 | 0.13 | mg/L |
| EB-10-062220 | 2017925-08 | Sulfate | 6/23/2020 | 1 | Y | n | u | | 1.0 | 0.14 | mg/L |
| EB-10-062220 | 2017925-08 | Nitrate as N | 6/23/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |

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| Analytical Method | | EPA-300.0 | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-10-062220 | 2017925-08 | Chloride | 6/23/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | mg/L |
| MW-11-1 | 2017925-07 | Sulfate | 6/23/2020 | 52 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-11-1 | 2017925-07 | Nitrate as N | 6/23/2020 | 2.8 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-11-1 | 2017925-07 | Chloride | 6/23/2020 | 32 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-11-2 | 2017925-06 | Nitrate as N | 6/23/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| MW-11-2 | 2017925-06 | Sulfate | 6/23/2020 | 37 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-11-2 | 2017925-06 | Chloride | 6/23/2020 | 17 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-11-3 | 2017925-04 | Chloride | 6/23/2020 | 12 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-11-3 | 2017925-04 | Sulfate | 6/23/2020 | 9.2 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-11-3 | 2017925-04 | Nitrate as N | 6/23/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| MW-11-4 | 2017925-03 | Sulfate | 6/22/2020 | 6.9 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-11-4 | 2017925-03 | Chloride | 6/22/2020 | 12 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-11-4 | 2017925-03 | Nitrate as N | 6/22/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| MW-11-5 | 2017925-02 | Chloride | 6/22/2020 | 10 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-11-5 | 2017925-02 | Nitrate as N | 6/22/2020 | 0.11 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-11-5 | 2017925-02 | Sulfate | 6/22/2020 | 20 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-14-2 | 2017925-11 | Sulfate | 6/23/2020 | 190 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-14-2 | 2017925-11 | Nitrate as N | 6/23/2020 | 13 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-14-2 | 2017925-11 | Chloride | 6/23/2020 | 120 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-14-4 | 2017925-10 | Chloride | 6/23/2020 | 57 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-14-4 | 2017925-10 | Nitrate as N | 6/23/2020 | 11 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-14-4 | 2017925-10 | Sulfate | 6/23/2020 | 62 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-14-5 | 2017925-09 | Chloride | 6/23/2020 | 10 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-14-5 | 2017925-09 | Sulfate | 6/23/2020 | 17 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-14-5 | 2017925-09 | Nitrate as N | 6/23/2020 | 0.11 | Y | y | v | | 0.10 | 0.024 | mg/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 |
| Dup-5-2Q2020 | 2017925-05 | Perchlorate | 7/1/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| EB-10-062220 | 2017925-08 | Perchlorate | 7/1/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-11-1 | 2017925-07 | Perchlorate | 7/1/2020 | 0.87 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-11-2 | 2017925-06 | Perchlorate | 7/1/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-11-3 | 2017925-04 | Perchlorate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-11-4 | 2017925-03 | Perchlorate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-11-5 | 2017925-02 | Perchlorate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-14-2 | 2017925-11 | Perchlorate | 7/1/2020 | 3.9 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-14-4 | 2017925-10 | Perchlorate | 7/1/2020 | 4.4 | Y | y | v | | 4.0 | 0.81 | ug/L |
| MW-14-5 | 2017925-09 | Perchlorate | 7/1/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |

| Analytical Method | | EPA-353.2 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-5-2Q2020 | 2017925-05 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| EB-10-062220 | 2017925-08 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-11-1 | 2017925-07 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-11-2 | 2017925-06 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-11-3 | 2017925-04 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-11-4 | 2017925-03 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-11-5 | 2017925-02 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-14-2 | 2017925-11 | Nitrite as N | 6/22/2020 | 0.11 | Y | y | v | | 0.050 | 0.010 | mg/L |
| MW-14-4 | 2017925-10 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-14-5 | 2017925-09 | Nitrite as N | 6/22/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |

| Analytical Method | | EPA-365.1 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |

SDG: 2017925

| 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 | 2017925-07 | ortho-Phosphate as P | 6/23/2020 | 0.05 | Y | n | u | | 0.050 | 0.017 | mg/L |

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-5-2Q2020 | 2017925-05 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |

SDG: 2017925

| 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-5-2Q2020 | 2017925-05 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Chloroethane | 6/24/2020 | 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 |
| Dup-5-2Q2020 | 2017925-05 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Styrene | 6/24/2020 | 0.21 | Y | y | v j | | 0.50 | 0.12 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

SDG: 2017925

| 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-5-2Q2020 | 2017925-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-5-2Q2020 | 2017925-05 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-10-062220 | 2017925-08 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-10-062220 | 2017925-08 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-10-062220 | 2017925-08 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-10-062220 | 2017925-08 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-10-062220 | 2017925-08 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-10-062220 | 2017925-08 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-10-062220 | 2017925-08 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-10-062220 | 2017925-08 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-10-062220 | 2017925-08 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-10-062220 | 2017925-08 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-10-062220 | 2017925-08 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-10-062220 | 2017925-08 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-10-062220 | 2017925-08 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-10-062220 | 2017925-08 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-10-062220 | 2017925-08 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| EB-10-062220 | 2017925-08 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-10-062220 | 2017925-08 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-10-062220 | 2017925-08 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-10-062220 | 2017925-08 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| EB-10-062220 | 2017925-08 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-10-062220 | 2017925-08 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-10-062220 | 2017925-08 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-10-062220 | 2017925-08 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-10-062220 | 2017925-08 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| EB-10-062220 | 2017925-08 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-10-062220 | 2017925-08 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| EB-10-062220 | 2017925-08 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-10-062220 | 2017925-08 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-10-062220 | 2017925-08 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-10-062220 | 2017925-08 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| EB-10-062220 | 2017925-08 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-10-062220 | 2017925-08 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| EB-10-062220 | 2017925-08 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-10-062220 | 2017925-08 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-10-062220 | 2017925-08 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-10-062220 | 2017925-08 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-10-062220 | 2017925-08 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-10-062220 | 2017925-08 | Pentachloroethane | 6/24/2020 | 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 |
| EB-10-062220 | 2017925-08 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| EB-10-062220 | 2017925-08 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| EB-10-062220 | 2017925-08 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-10-062220 | 2017925-08 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-10-062220 | 2017925-08 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-10-062220 | 2017925-08 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-10-062220 | 2017925-08 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-10-062220 | 2017925-08 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-10-062220 | 2017925-08 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-10-062220 | 2017925-08 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-10-062220 | 2017925-08 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-10-062220 | 2017925-08 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-10-062220 | 2017925-08 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-10-062220 | 2017925-08 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-10-062220 | 2017925-08 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-10-062220 | 2017925-08 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| EB-10-062220 | 2017925-08 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| EB-10-062220 | 2017925-08 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-10-062220 | 2017925-08 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-10-062220 | 2017925-08 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-10-062220 | 2017925-08 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-10-062220 | 2017925-08 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-11-1 | 2017925-07 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-1 | 2017925-07 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-1 | 2017925-07 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-1 | 2017925-07 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-1 | 2017925-07 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-1 | 2017925-07 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-1 | 2017925-07 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-1 | 2017925-07 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-1 | 2017925-07 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-1 | 2017925-07 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-1 | 2017925-07 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-1 | 2017925-07 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |

SDG: 2017925

| Analytical 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 | 2017925-07 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-11-1 | 2017925-07 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-11-1 | 2017925-07 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-1 | 2017925-07 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-1 | 2017925-07 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-1 | 2017925-07 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-11-1 | 2017925-07 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-1 | 2017925-07 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-1 | 2017925-07 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-1 | 2017925-07 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-1 | 2017925-07 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-11-1 | 2017925-07 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-1 | 2017925-07 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-11-1 | 2017925-07 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-1 | 2017925-07 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-1 | 2017925-07 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-1 | 2017925-07 | 1,3-Dichlorobenzene | 6/24/2020 | 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-11-1 | 2017925-07 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-1 | 2017925-07 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-1 | 2017925-07 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-11-1 | 2017925-07 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-11-1 | 2017925-07 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-11-1 | 2017925-07 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-11-1 | 2017925-07 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-11-1 | 2017925-07 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-1 | 2017925-07 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-11-1 | 2017925-07 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-1 | 2017925-07 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-11-1 | 2017925-07 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-1 | 2017925-07 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-1 | 2017925-07 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-1 | 2017925-07 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-1 | 2017925-07 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-1 | 2017925-07 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-11-1 | 2017925-07 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-1 | 2017925-07 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-11-1 | 2017925-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-1 | 2017925-07 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-11-1 | 2017925-07 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-1 | 2017925-07 | Ethyl methacrylate | 6/24/2020 | 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-11-1 | 2017925-07 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-1 | 2017925-07 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-1 | 2017925-07 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-11-1 | 2017925-07 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-1 | 2017925-07 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-11-1 | 2017925-07 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-1 | 2017925-07 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-11-1 | 2017925-07 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-1 | 2017925-07 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-11-1 | 2017925-07 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-1 | 2017925-07 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-11-1 | 2017925-07 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-11-1 | 2017925-07 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-11-1 | 2017925-07 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-11-2 | 2017925-06 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-2 | 2017925-06 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-11-2 | 2017925-06 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-11-2 | 2017925-06 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-11-2 | 2017925-06 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-2 | 2017925-06 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-2 | 2017925-06 | 1,2,3-Trichloropropane | 6/24/2020 | 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-11-2 | 2017925-06 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-2 | 2017925-06 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-2 | 2017925-06 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-2 | 2017925-06 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-2 | 2017925-06 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-2 | 2017925-06 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-2 | 2017925-06 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-2 | 2017925-06 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-11-2 | 2017925-06 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-2 | 2017925-06 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-2 | 2017925-06 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-2 | 2017925-06 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-11-2 | 2017925-06 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-2 | 2017925-06 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-2 | 2017925-06 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-11-2 | 2017925-06 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-11-2 | 2017925-06 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-11-2 | 2017925-06 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-11-2 | 2017925-06 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-2 | 2017925-06 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-2 | 2017925-06 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-2 | 2017925-06 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-2 | 2017925-06 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-2 | 2017925-06 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-11-2 | 2017925-06 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-11-2 | 2017925-06 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-2 | 2017925-06 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-2 | 2017925-06 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-2 | 2017925-06 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-2 | 2017925-06 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-2 | 2017925-06 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-11-2 | 2017925-06 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-2 | 2017925-06 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-2 | 2017925-06 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-2 | 2017925-06 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-2 | 2017925-06 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-2 | 2017925-06 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-11-2 | 2017925-06 | tert-Butylbenzene | 6/24/2020 | 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-11-2 | 2017925-06 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-2 | 2017925-06 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-2 | 2017925-06 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-2 | 2017925-06 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-11-2 | 2017925-06 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-2 | 2017925-06 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-2 | 2017925-06 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-2 | 2017925-06 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-2 | 2017925-06 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-2 | 2017925-06 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-2 | 2017925-06 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-11-2 | 2017925-06 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-2 | 2017925-06 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-11-2 | 2017925-06 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-11-2 | 2017925-06 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-2 | 2017925-06 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-11-2 | 2017925-06 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-11-2 | 2017925-06 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-2 | 2017925-06 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-11-2 | 2017925-06 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|--------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-2 | 2017925-06 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-11-2 | 2017925-06 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-11-3 | 2017925-04 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-3 | 2017925-04 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-3 | 2017925-04 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-3 | 2017925-04 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-3 | 2017925-04 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-3 | 2017925-04 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-3 | 2017925-04 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-3 | 2017925-04 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-11-3 | 2017925-04 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-3 | 2017925-04 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-3 | 2017925-04 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-3 | 2017925-04 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-3 | 2017925-04 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-3 | 2017925-04 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | 4-Chlorotoluene | 6/24/2020 | 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-11-3 | 2017925-04 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-3 | 2017925-04 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-11-3 | 2017925-04 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-3 | 2017925-04 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-3 | 2017925-04 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-3 | 2017925-04 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-3 | 2017925-04 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-11-3 | 2017925-04 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-11-3 | 2017925-04 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-11-3 | 2017925-04 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-11-3 | 2017925-04 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-11-3 | 2017925-04 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-11-3 | 2017925-04 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-11-3 | 2017925-04 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-3 | 2017925-04 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-11-3 | 2017925-04 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-11-3 | 2017925-04 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-11-3 | 2017925-04 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-11-3 | 2017925-04 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-3 | 2017925-04 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-11-3 | 2017925-04 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-11-3 | 2017925-04 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-11-3 | 2017925-04 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-3 | 2017925-04 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-3 | 2017925-04 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-3 | 2017925-04 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-11-3 | 2017925-04 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-3 | 2017925-04 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-11-3 | 2017925-04 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-11-3 | 2017925-04 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-3 | 2017925-04 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-3 | 2017925-04 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-11-3 | 2017925-04 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-3 | 2017925-04 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-3 | 2017925-04 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-3 | 2017925-04 | Methyl t-butyl ether | 6/24/2020 | 0.19 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-3 | 2017925-04 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-3 | 2017925-04 | Styrene | 6/24/2020 | 0.16 | Y | y | v j | | 0.50 | 0.12 | ug/L |
| MW-11-3 | 2017925-04 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-3 | 2017925-04 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | t-Amyl Methyl ether | 6/24/2020 | 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-11-3 | 2017925-04 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-3 | 2017925-04 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-3 | 2017925-04 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-3 | 2017925-04 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-3 | 2017925-04 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-3 | 2017925-04 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-11-3 | 2017925-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-3 | 2017925-04 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-3 | 2017925-04 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-3 | 2017925-04 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-3 | 2017925-04 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-11-3 | 2017925-04 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-4 | 2017925-03 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-11-4 | 2017925-03 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-11-4 | 2017925-03 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-4 | 2017925-03 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-4 | 2017925-03 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-4 | 2017925-03 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-4 | 2017925-03 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-11-4 | 2017925-03 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-4 | 2017925-03 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-4 | 2017925-03 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-4 | 2017925-03 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-4 | 2017925-03 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-4 | 2017925-03 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-4 | 2017925-03 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-4 | 2017925-03 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-11-4 | 2017925-03 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-11-4 | 2017925-03 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-11-4 | 2017925-03 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-4 | 2017925-03 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-4 | 2017925-03 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-4 | 2017925-03 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-11-4 | 2017925-03 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-4 | 2017925-03 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-4 | 2017925-03 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

SDG: 2017925

| Analytical 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 | 2017925-03 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-4 | 2017925-03 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-11-4 | 2017925-03 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-4 | 2017925-03 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-11-4 | 2017925-03 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-11-4 | 2017925-03 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-11-4 | 2017925-03 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-11-4 | 2017925-03 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-11-4 | 2017925-03 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-11-4 | 2017925-03 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-4 | 2017925-03 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-11-4 | 2017925-03 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-11-4 | 2017925-03 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-11-4 | 2017925-03 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-11-4 | 2017925-03 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-11-4 | 2017925-03 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-11-4 | 2017925-03 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-4 | 2017925-03 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-4 | 2017925-03 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-4 | 2017925-03 | 1,1-Dichloropropanone | 6/24/2020 | 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-11-4 | 2017925-03 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-4 | 2017925-03 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-4 | 2017925-03 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-4 | 2017925-03 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-4 | 2017925-03 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-4 | 2017925-03 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-4 | 2017925-03 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-4 | 2017925-03 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-4 | 2017925-03 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-4 | 2017925-03 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-11-4 | 2017925-03 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-4 | 2017925-03 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-4 | 2017925-03 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-4 | 2017925-03 | Trichloroethene | 6/24/2020 | 0.31 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-11-4 | 2017925-03 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-4 | 2017925-03 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-11-4 | 2017925-03 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-4 | 2017925-03 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-4 | 2017925-03 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-11-4 | 2017925-03 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-11-4 | 2017925-03 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-4 | 2017925-03 | 1,2,3-Trichlorobenzene | 6/24/2020 | 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-11-4 | 2017925-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-5 | 2017925-02 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-5 | 2017925-02 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-5 | 2017925-02 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-5 | 2017925-02 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-5 | 2017925-02 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-11-5 | 2017925-02 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-5 | 2017925-02 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-5 | 2017925-02 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-5 | 2017925-02 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-5 | 2017925-02 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-5 | 2017925-02 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-5 | 2017925-02 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | Hexachlorobutadiene | 6/24/2020 | 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-11-5 | 2017925-02 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-5 | 2017925-02 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-5 | 2017925-02 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-5 | 2017925-02 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-5 | 2017925-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-5 | 2017925-02 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-5 | 2017925-02 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-5 | 2017925-02 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-11-5 | 2017925-02 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-11-5 | 2017925-02 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-11-5 | 2017925-02 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-11-5 | 2017925-02 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-11-5 | 2017925-02 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-11-5 | 2017925-02 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-5 | 2017925-02 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-5 | 2017925-02 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-5 | 2017925-02 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-5 | 2017925-02 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-5 | 2017925-02 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-5 | 2017925-02 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-11-5 | 2017925-02 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-11-5 | 2017925-02 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-11-5 | 2017925-02 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-5 | 2017925-02 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-11-5 | 2017925-02 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-11-5 | 2017925-02 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-11-5 | 2017925-02 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-11-5 | 2017925-02 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-11-5 | 2017925-02 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-11-5 | 2017925-02 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-11-5 | 2017925-02 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-11-5 | 2017925-02 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-11-5 | 2017925-02 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-11-5 | 2017925-02 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-11-5 | 2017925-02 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-11-5 | 2017925-02 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-5 | 2017925-02 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-11-5 | 2017925-02 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-11-5 | 2017925-02 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-11-5 | 2017925-02 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-11-5 | 2017925-02 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-11-5 | 2017925-02 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-11-5 | 2017925-02 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-11-5 | 2017925-02 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-11-5 | 2017925-02 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-11-5 | 2017925-02 | n-Butylbenzene | 6/24/2020 | 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-11-5 | 2017925-02 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-11-5 | 2017925-02 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-11-5 | 2017925-02 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-11-5 | 2017925-02 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-11-5 | 2017925-02 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-11-5 | 2017925-02 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-11-5 | 2017925-02 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-5 | 2017925-02 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-11-5 | 2017925-02 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-11-5 | 2017925-02 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-2 | 2017925-11 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-2 | 2017925-11 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-2 | 2017925-11 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-2 | 2017925-11 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-2 | 2017925-11 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-2 | 2017925-11 | Tetrachloroethene | 6/24/2020 | 0.35 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-14-2 | 2017925-11 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-2 | 2017925-11 | n-Propylbenzene | 6/24/2020 | 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-14-2 | 2017925-11 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-2 | 2017925-11 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-2 | 2017925-11 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-14-2 | 2017925-11 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-2 | 2017925-11 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-2 | 2017925-11 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | Chloroform | 6/24/2020 | 0.49 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-2 | 2017925-11 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-14-2 | 2017925-11 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-2 | 2017925-11 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-14-2 | 2017925-11 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-14-2 | 2017925-11 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-2 | 2017925-11 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-2 | 2017925-11 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-2 | 2017925-11 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-2 | 2017925-11 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-14-2 | 2017925-11 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-14-2 | 2017925-11 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-2 | 2017925-11 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-14-2 | 2017925-11 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-14-2 | 2017925-11 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-14-2 | 2017925-11 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-2 | 2017925-11 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-2 | 2017925-11 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-2 | 2017925-11 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-14-2 | 2017925-11 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-2 | 2017925-11 | Trichloroethene | 6/24/2020 | 1.4 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-14-2 | 2017925-11 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-2 | 2017925-11 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-2 | 2017925-11 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-2 | 2017925-11 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-2 | 2017925-11 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-2 | 2017925-11 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-2 | 2017925-11 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-14-2 | 2017925-11 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-2 | 2017925-11 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-2 | 2017925-11 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-2 | 2017925-11 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-2 | 2017925-11 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-14-2 | 2017925-11 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-14-2 | 2017925-11 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-2 | 2017925-11 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-14-2 | 2017925-11 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-14-2 | 2017925-11 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-14-2 | 2017925-11 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-14-2 | 2017925-11 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-14-2 | 2017925-11 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-14-2 | 2017925-11 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-14-2 | 2017925-11 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-14-2 | 2017925-11 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-2 | 2017925-11 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-14-2 | 2017925-11 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-14-2 | 2017925-11 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-2 | 2017925-11 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-14-2 | 2017925-11 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-14-2 | 2017925-11 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-2 | 2017925-11 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-2 | 2017925-11 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-2 | 2017925-11 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-2 | 2017925-11 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-4 | 2017925-10 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-4 | 2017925-10 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-4 | 2017925-10 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-4 | 2017925-10 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-4 | 2017925-10 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-4 | 2017925-10 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-4 | 2017925-10 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-4 | 2017925-10 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-4 | 2017925-10 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-4 | 2017925-10 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-4 | 2017925-10 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-4 | 2017925-10 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-4 | 2017925-10 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-14-4 | 2017925-10 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-4 | 2017925-10 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-4 | 2017925-10 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-4 | 2017925-10 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-4 | 2017925-10 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-14-4 | 2017925-10 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-4 | 2017925-10 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-4 | 2017925-10 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-4 | 2017925-10 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-4 | 2017925-10 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-4 | 2017925-10 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-4 | 2017925-10 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-4 | 2017925-10 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-4 | 2017925-10 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-14-4 | 2017925-10 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-4 | 2017925-10 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-14-4 | 2017925-10 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-4 | 2017925-10 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-14-4 | 2017925-10 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-14-4 | 2017925-10 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-14-4 | 2017925-10 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-4 | 2017925-10 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-4 | 2017925-10 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-14-4 | 2017925-10 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-14-4 | 2017925-10 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-14-4 | 2017925-10 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-14-4 | 2017925-10 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-14-4 | 2017925-10 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-4 | 2017925-10 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-4 | 2017925-10 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-4 | 2017925-10 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-4 | 2017925-10 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-14-4 | 2017925-10 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-14-4 | 2017925-10 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-4 | 2017925-10 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-4 | 2017925-10 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-4 | 2017925-10 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-4 | 2017925-10 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-14-4 | 2017925-10 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-4 | 2017925-10 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-14-4 | 2017925-10 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-14-4 | 2017925-10 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-14-4 | 2017925-10 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-14-4 | 2017925-10 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-14-4 | 2017925-10 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-4 | 2017925-10 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-14-4 | 2017925-10 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-14-4 | 2017925-10 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-14-4 | 2017925-10 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-4 | 2017925-10 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-4 | 2017925-10 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-4 | 2017925-10 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-4 | 2017925-10 | Chloroform | 6/24/2020 | 0.24 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-14-4 | 2017925-10 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-14-4 | 2017925-10 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-4 | 2017925-10 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-4 | 2017925-10 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-4 | 2017925-10 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-4 | 2017925-10 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-4 | 2017925-10 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-5 | 2017925-09 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-14-5 | 2017925-09 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-5 | 2017925-09 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-14-5 | 2017925-09 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-14-5 | 2017925-09 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-14-5 | 2017925-09 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-5 | 2017925-09 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-14-5 | 2017925-09 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-14-5 | 2017925-09 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-14-5 | 2017925-09 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-5 | 2017925-09 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-14-5 | 2017925-09 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-5 | 2017925-09 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-5 | 2017925-09 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-14-5 | 2017925-09 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-14-5 | 2017925-09 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-14-5 | 2017925-09 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-14-5 | 2017925-09 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-14-5 | 2017925-09 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-5 | 2017925-09 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-5 | 2017925-09 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-5 | 2017925-09 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-5 | 2017925-09 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-5 | 2017925-09 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-5 | 2017925-09 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-5 | 2017925-09 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-14-5 | 2017925-09 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-14-5 | 2017925-09 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-5 | 2017925-09 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-5 | 2017925-09 | Trichloroethene | 6/24/2020 | 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-14-5 | 2017925-09 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-5 | 2017925-09 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-5 | 2017925-09 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-14-5 | 2017925-09 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-14-5 | 2017925-09 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-14-5 | 2017925-09 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-14-5 | 2017925-09 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-5 | 2017925-09 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-14-5 | 2017925-09 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-5 | 2017925-09 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-5 | 2017925-09 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | Chloroform | 6/24/2020 | 0.15 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-5 | 2017925-09 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-5 | 2017925-09 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-14-5 | 2017925-09 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-5 | 2017925-09 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-14-5 | 2017925-09 | Dibromochloromethane | 6/24/2020 | 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-14-5 | 2017925-09 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-14-5 | 2017925-09 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-14-5 | 2017925-09 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-14-5 | 2017925-09 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-5 | 2017925-09 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-5 | 2017925-09 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-5 | 2017925-09 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-5 | 2017925-09 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-5 | 2017925-09 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-5 | 2017925-09 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-5 | 2017925-09 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-5 | 2017925-09 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-5 | 2017925-09 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-5 | 2017925-09 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-5 | 2017925-09 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-5 | 2017925-09 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-5 | 2017925-09 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-5 | 2017925-09 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-5 | 2017925-09 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-5 | 2017925-09 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | 2-Chlorotoluene | 6/24/2020 | 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 |
| TB-10-062220 | 2017925-01 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-10-062220 | 2017925-01 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-10-062220 | 2017925-01 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-10-062220 | 2017925-01 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-10-062220 | 2017925-01 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-10-062220 | 2017925-01 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-10-062220 | 2017925-01 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-10-062220 | 2017925-01 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-10-062220 | 2017925-01 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-10-062220 | 2017925-01 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-10-062220 | 2017925-01 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| TB-10-062220 | 2017925-01 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| TB-10-062220 | 2017925-01 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-10-062220 | 2017925-01 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-10-062220 | 2017925-01 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-10-062220 | 2017925-01 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-10-062220 | 2017925-01 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-10-062220 | 2017925-01 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-10-062220 | 2017925-01 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-10-062220 | 2017925-01 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-10-062220 | 2017925-01 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-10-062220 | 2017925-01 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| TB-10-062220 | 2017925-01 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| TB-10-062220 | 2017925-01 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-10-062220 | 2017925-01 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-10-062220 | 2017925-01 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-10-062220 | 2017925-01 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-10-062220 | 2017925-01 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-10-062220 | 2017925-01 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-10-062220 | 2017925-01 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-10-062220 | 2017925-01 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-10-062220 | 2017925-01 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-10-062220 | 2017925-01 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-10-062220 | 2017925-01 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-10-062220 | 2017925-01 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-10-062220 | 2017925-01 | Chloroacetonitrile | 6/24/2020 | 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 |
| TB-10-062220 | 2017925-01 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-10-062220 | 2017925-01 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-10-062220 | 2017925-01 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-10-062220 | 2017925-01 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-10-062220 | 2017925-01 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-10-062220 | 2017925-01 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| TB-10-062220 | 2017925-01 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-10-062220 | 2017925-01 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-10-062220 | 2017925-01 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-10-062220 | 2017925-01 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-10-062220 | 2017925-01 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-10-062220 | 2017925-01 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-10-062220 | 2017925-01 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-10-062220 | 2017925-01 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-10-062220 | 2017925-01 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 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 |
| TB-10-062220 | 2017925-01 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-10-062220 | 2017925-01 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-10-062220 | 2017925-01 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-10-062220 | 2017925-01 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-10-062220 | 2017925-01 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-10-062220 | 2017925-01 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-10-062220 | 2017925-01 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

| Analytical Method | | SM-2320B | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-5-2Q2020 | 2017925-05 | Bicarbonate | 6/24/2020 | 130 | Y | y | v | | 5.0 | 5.0 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Total Alkalinity as CaCO3 | 6/24/2020 | 120 | Y | y | v | | 4.1 | 4.1 | mg/L |
| Dup-5-2Q2020 | 2017925-05 | Carbonate | 6/24/2020 | 3.7 | Y | y | v | | 2.5 | 2.5 | mg/L |
| EB-10-062220 | 2017925-08 | Total Alkalinity as CaCO3 | 6/24/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| EB-10-062220 | 2017925-08 | Bicarbonate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| EB-10-062220 | 2017925-08 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-11-1 | 2017925-07 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-11-1 | 2017925-07 | Total Alkalinity as CaCO3 | 6/24/2020 | 220 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-11-1 | 2017925-07 | Bicarbonate | 6/24/2020 | 260 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-11-2 | 2017925-06 | Bicarbonate | 6/24/2020 | 230 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-11-2 | 2017925-06 | Total Alkalinity as CaCO3 | 6/24/2020 | 190 | Y | y | v | | 4.1 | 4.1 | mg/L |

SDG: 2017925

| Analytical Method | | SM-2320B | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-11-2 | 2017925-06 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-11-3 | 2017925-04 | Total Alkalinity as CaCO3 | 6/24/2020 | 120 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-11-3 | 2017925-04 | Bicarbonate | 6/24/2020 | 130 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-11-3 | 2017925-04 | Carbonate | 6/24/2020 | 3.1 | Y | y | v | | 2.5 | 2.5 | mg/L |
| MW-11-4 | 2017925-03 | Bicarbonate | 6/24/2020 | 150 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-11-4 | 2017925-03 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-11-4 | 2017925-03 | Total Alkalinity as CaCO3 | 6/24/2020 | 120 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-11-5 | 2017925-02 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-11-5 | 2017925-02 | Total Alkalinity as CaCO3 | 6/24/2020 | 130 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-11-5 | 2017925-02 | Bicarbonate | 6/24/2020 | 160 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-14-2 | 2017925-11 | Bicarbonate | 6/24/2020 | 280 | Y | y | v | | 10 | 10 | mg/L |
| MW-14-2 | 2017925-11 | Carbonate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-14-2 | 2017925-11 | Total Alkalinity as CaCO3 | 6/24/2020 | 230 | Y | y | v | | 8.2 | 8.2 | mg/L |
| MW-14-4 | 2017925-10 | Total Alkalinity as CaCO3 | 6/24/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-14-4 | 2017925-10 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-14-4 | 2017925-10 | Bicarbonate | 6/24/2020 | 190 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-14-5 | 2017925-09 | Bicarbonate | 6/24/2020 | 160 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-14-5 | 2017925-09 | Carbonate | 6/24/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-14-5 | 2017925-09 | Total Alkalinity as CaCO3 | 6/24/2020 | 130 | Y | y | v | | 4.1 | 4.1 | mg/L |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 13, 2020

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018049

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| TB-11-062320 | 2018049-01 | Water | 06/23/20 |
| MW-14-3** | 2018049-02** | Water | 06/23/20 |
| EB-11-062320 | 2018049-03 | Water | 06/23/20 |
| MW-21-5 | 2018049-04 | Water | 06/23/20 |
| MW-21-4 | 2018049-05 | Water | 06/23/20 |
| MW-21-3 | 2018049-06 | Water | 06/23/20 |
| MW-21-2 | 2018049-07 | Water | 06/23/20 |
| DUP-6-2Q2020 | 2018049-08 | Water | 06/23/20 |
| MW-14-3MS | 2018049-02MS | Water | 06/23/20 |
| MW-14-3MSD | 2018049-02MSD | Water | 06/23/20 |

**Indicates sample underwent Level IV review

Introduction

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

The analyses were performed by the following method:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

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

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

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

Average relative response factors (RRF) for all compounds were within validation criteria.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/18/20 | Pentachloroethane | 76.0 | All samples in SDG 2018049 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

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

| Date | Compound | %D | Associated Samples | Flag | A or P |
|-----------------------|---------------|------|----------------------------|----------------------|--------|
| 06/23/20 (23JUN59) | Bromomethane | 44.7 | All samples in SDG 2018049 | UJ (all non-detects) | P |
| 06/23/20 (23JUN60) | Methyl iodide | 58.2 | All samples in SDG 2018049 | 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-11-062320 was identified as a trip blank. No contaminants were found.

Sample EB-11-062320 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-21-2 and DUP-6-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/L) | | RPD |
|-------------------|----------------------|--------------|-----|
| | MW-21-2 | DUP-6-2Q2020 | |
| Chloroform | 0.47 | 0.42 | 11 |
| Tetrachloroethene | 2.0 | 1.8 | 11 |
| Trichloroethene | 0.27 | 0.22 | 20 |

XI. Internal Standards

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

XII. Compound Quantitation

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

XIII. Target Compound Identifications

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

XIV. System Performance

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

XV. Overall Assessment of Data

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

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

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

NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2018049

| Sample | Compound | Flag | A or P | Reason |
|---|-------------------------------|--|--------|---------------------------------------|
| TB-11-062320 MW-14-3** EB-11-062320 MW-21-5 MW-21-4 MW-21-3 MW-21-2 DUP-6-2Q2020 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-11-062320 MW-14-3** EB-11-062320 MW-21-5 MW-21-4 MW-21-3 MW-21-2 DUP-6-2Q2020 | Bromomethane Methyl iodide | UJ (all non-detects) UJ (all non-detects) | P | Continuing calibration (%D) |

NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2018049

No Sample Data Qualified in this SDG

LDC #: 48752C1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2018049

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 8/20

Page: 101

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/SW | RSD ≤ 20%. CV ≤ 30% |
| IV. | Continuing calibration | SW | CV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB=1. EB=3 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | A | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | SW | D=7/8 |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | A | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

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

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | TB-11-062320 | 2018049-01 | Water | 06/23/20 |
| 2 | MW-14-3** | 2018049-02** | Water | 06/23/20 |
| 3 | EB-11-062320 | 2018049-03 | Water | 06/23/20 |
| 4 | MW-21-5 | 2018049-04 | Water | 06/23/20 |
| 5 | MW-21-4 | 2018049-05 | Water | 06/23/20 |
| 6 | MW-21-3 | 2018049-06 | Water | 06/23/20 |
| 7 | MW-21-2 | 2018049-07 | Water | 06/23/20 |
| 8 | DUP-6-2Q2020 | 2018049-08 | Water | 06/23/20 |
| 9 | MW-14-3MS | 2018049-02MS | Water | 06/23/20 |
| 10 | MW-14-3MSD | 2018049-02MSD | Water | 06/23/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

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

VALIDATION FINDINGS CHECKLIST

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

TARGET COMPOUND WORKSHEET

METHOD: VOA

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

LDC#:48752C1

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 |
|----------|----------------------|------|-----|
| | 7 | 8 | |
| K | 0.47 | 0.42 | 11 |
| AA | 2.0 | 1.8 | 11 |
| S | 0.27 | 0.22 | 20 |

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2020\48752C1_JPL.wpd

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA Method 524.2)

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

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

average RRF = sum of the RRFs/number of standards

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

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-----------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (initial) | Average RRF (initial) | %RSD | %RSD |
| 1 | ICAL (MS-V5) | 6/18/20 | K (1st internal standard) | 0.6723501 | 0.67235 | 0.6584789 | 0.6584789 | 2.271494 | 2.272 |
| | | | S (2nd internal standard) | 0.3480862 | 0.3480861 | 0.3443647 | 0.3443647 | 4.923863 | 4.924 |
| | | | EE (3rd internal standard) | 1.866471 | 1.866471 | 1.794106 | 1.794106 | 5.729535 | 5.729 |
| | | | (4th internal standard) | | | | | | |
| 2 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 3 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 4 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (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 | 23JUN59 | 6/23/20 | K (1st internal standard) | 0.6584789 | 0.7684992 | 0.7684992 | 16.7 | 16.7 |
| | | | S (2nd internal standard) | 0.3443647 | 0.3397963 | 0.3397963 | 1.3 | 1.3 |
| | | | EE (3rd internal standard) | 1.794106 | 1.689156 | 1.689156 | 5.8 | 5.8 |
| | | | (4th internal standard) | | | | | |
| 2 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 3 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 4 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (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 #: 4552da

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 6 of 9
 Reviewer: 9
 2nd reviewer: 9

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 | 965 | 96.5 | 96.5 | |
| Bromofluorobenzene | ↓ | 99.7 | 99.7 | 99.7 | |
| 1,2-Dichlorobenzene-d4 | 1,2-DCE ↓ | 122 | 122 | 122 | |
| 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: 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 | 25.0 | 25.0 | ND | 30.91 | 29.2 | 124 | 124 | 117 | 117 | 5.66 | 5.66 |
| Trichloroethene | ↓ | ↓ | 1.88 | 29.29 | 29.51 | 110 | 110 | 111 | 111 | 0.748 | 0.748 |
| Benzene | ↓ | ↓ | ND | 28.43 | 27.45 | 114 | 114 | 110 | 110 | 3.51 | 3.51 |
| Toluene | ↓ | ↓ | ↓ | 25.97 | 26.69 | 104 | 104 | 107 | 107 | 2.13 | 2.13 |
| Chlorobenzene | ↓ | ↓ | ↓ | 24.76 | 23.94 | 99 | 99 | 95.8 | 95.8 | 3.37 | 3.37 |

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 #: 4873219

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

METHOD: GC/MS VOA (EPA Method 524.2)

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

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B080915-B4

| Compound | Spike Added (µg/L) | | Spiked Sample Concentration (µg/L) | | LCS | | LCSD | | LCS/LCSD | |
|--------------------|--------------------|------|------------------------------------|------|------------------|---------|------------------|---------|----------|--------------|
| | LCS | LCSD | LCS | LCSD | Percent Recovery | | Percent Recovery | | RPD | |
| | | | | | Reported | Recalc. | Reported | Recalc. | Reported | Recalculated |
| 1,1-Dichloroethene | 25.0 | ND | 30.30 | NA | 121 | 121 | | | | |
| Trichloroethene | ↓ | ↓ | 27.74 | | 111 | 111 | | | | |
| Benzene | ↓ | ↓ | 28.7 | ↓ | 113 | 113 | | | | |
| Toluene | ↓ | ↓ | 25.50 | ↓ | 102 | 102 | | | | |
| Chlorobenzene | ↓ | ↓ | 23.93 | ↓ | 95.7 | 95.7 | | | | |

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

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Metals

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018049

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-14-3** | 2018049-02** | Water | 06/23/20 |
| EB-11-062320 | 2018049-03 | Water | 06/23/20 |
| MW-21-5 | 2018049-04 | Water | 06/23/20 |
| MW-21-4 | 2018049-05 | Water | 06/23/20 |
| MW-21-3 | 2018049-06 | Water | 06/23/20 |
| MW-21-2 | 2018049-07 | Water | 06/23/20 |
| DUP-6-2Q2020 | 2018049-08 | Water | 06/23/20 |
| MW-14-3MS | 2018049-02MS | Water | 06/23/20 |
| MW-14-3MSD | 2018049-02MSD | Water | 06/23/20 |
| MW-14-3DUP | 2018049-02DUP | Water | 06/23/20 |

**Indicates sample underwent Level IV validation

Introduction

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

The analyses were performed by the following methods:

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

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

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

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

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

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

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

III. Instrument Calibration

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

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|----------|---------|-----------------------|--|
| ICB/CCB | Arsenic | 0.81 ug/L | EB-11-062320 MW-21-5 MW-21-4 MW-21-3 MW-21-2 DUP-6-2Q2020 |

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|---------|---------|------------------------|------------------------------|
| MW-21-5 | Arsenic | 1.2 ug/L | 1.2U ug/L |

VI. Field Blanks

Sample EB-11-062320 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Analyte | Concentration |
|--------------|--------------------------------|--------------------------------------|
| EB-11-062320 | Calcium Magnesium Sodium | 0.097 mg/L 0.03 mg/L 0.24 mg/L |

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-14-3MS/MSD, no data were qualified for calcium, magnesium, and sodium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution 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-21-2 and DUP-6-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|----------|---------------|--------------|-----|
| | MW-21-2 | DUP-6-2Q2020 | |
| Calcium | 160 mg/L | 160 mg/L | 0 |
| Chromium | 7.0 ug/L | 0.88 ug/L | 155 |
| Iron | 380 ug/L | 110 ug/L | 110 |

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|-----|
| | MW-21-2 | DUP-6-2Q2020 | |
| Magnesium | 51 mg/L | 49 mg/L | 4 |
| Potassium | 3.0 mg/L | 3.0 mg/L | 0 |
| Sodium | 58 mg/L | 56 mg/L | 4 |

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2018049**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2018049**

| Sample | Analyte | Modified Final Concentration | A or P |
|---------|---------|------------------------------|--------|
| MW-21-5 | Arsenic | 1.2U ug/L | A |

LDC #: 48752C4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

SDG #: 2018049

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: 

METHOD: Metals (EPA Method 200.7/200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|--|
| I. | Sample receipt/Technical holding times | A/A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | SW | EB=2 |
| VII. | Matrix Spike/Matrix Spike Duplicates | A | (8,9): Ca,Mg,Na > 4X |
| VIII. | Duplicate sample analysis | A | 10 |
| IX. | Serial Dilution | A | |
| X. | Laboratory control samples | A | LCS |
| XI. | Field Duplicates | SW | (6,7) |
| XII. | Internal Standard (ICP-MS) | A | reviewed for level IV only |
| XIII. | Sample Result Verification | A | Not reviewed for Level III validation. |
| XIV. | Overall Assessment of Data | A | |

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-14-3** | 2018049-02** | Water | 06/23/20 |
| 2 | EB-11-062320 | 2018049-03 | Water | 06/23/20 |
| 3 | MW-21-5 | 2018049-04 | Water | 06/23/20 |
| 4 | MW-21-4 | 2018049-05 | Water | 06/23/20 |
| 5 | MW-21-3 | 2018049-06 | Water | 06/23/20 |
| 6 | MW-21-2 | 2018049-07 | Water | 06/23/20 |
| 7 | DUP-6-2Q2020 | 2018049-08 | Water | 06/23/20 |
| 8 | MW-14-3MS | 2018049-02MS | Water | 06/23/20 |
| 9 | MW-14-3MSD | 2018049-02MSD | Water | 06/23/20 |
| 10 | MW-14-3DUP | 2018049-02DUP | Water | 06/23/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes: _____

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted:

Associated Samples: 2 to 7

| | | | | Sample Identification | | | | | | | | | |
|---------|------------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Analyte | PB (units) | Maximum ICB/CCB (ug/L) | Action Level | | | | | | | | | | |
| | | | | 3 | | | | | | | | | |
| As | | 0.81 | 4.05 | 1.2 | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

Field Blanks

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Blank units: ug/L, mg/L

Associated sample units: ug/L, mg/L

Sampling Date: 6/23/20

Associated Samples: none

| | | | Sample Identification | | | | | | | | | | | |
|-----------|----------|------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Analyte | Blank ID | Blank Conc | Action Level | | | | | | | | | | | |
| Ca (mg/L) | 2 | 0.097 | | | | | | | | | | | | |
| Mg (mg/L) | | 0.03 | | | | | | | | | | | | |
| Na (mg/L) | | 0.24 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Comments: The action level, when applicable, is established at 5X the highest concentration.

Method: Metals

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|-----------------|----------------------|------|-----|---------------------------|
| | 6 | 7 | | |
| Calcium | 160 | 160 | 0 | |
| Chromium (ug/L) | 7.0 | 0.88 | 155 | |
| Iron (ug/L) | 380 | 110 | 110 | |
| Magnesium | 51 | 49 | 4 | |
| Potassium | 3.0 | 3.0 | 0 | |
| Sodium | 58 | 56 | 4 | |

VALIDATION FINDINGS CHECKLIST
Calibration Calculation Verification

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

| Standard ID | Type of Analysis | Element | Found | True | Recalculated %R | Reported %R | Acceptable (Y/N) |
|-------------|------------------|-----------|---------|------|-----------------|-------------|------------------|
| ICV | ICP | Fe (mg/L) | 20.34 | 20 | 101.7 | 102 | Y |
| CCV | ICP | Mg (mg/L) | 48.2 | 50 | 96.4 | 96.4 | Y |
| LLCC | ICP | | | | | | |
| ICSAB | ICP | Ca (mg/L) | 508.8 | 500 | 101.76 | 102 | Y |
| ICV | ICP-MS | Pb (ug/L) | 129.624 | 125 | 103.6992 | 104 | Y |
| CCV | ICP-MS | Cr(ug/L) | 40.116 | 40 | 100.29 | 100 | Y |
| LLCC | ICP-MS | | | | | | |
| ICSAB | ICP-MS | | | | | | |
| ICV | CVAA | | | | | | |
| CCV | CVAA | | | | | | |

| ICP-MS Tune | QC Parameter | Mass | Actual | Required |
|-------------|--------------|---------|---------|-----------|
| | Mass Axis | 102.905 | 102.879 | ± 0.1 amu |
| | %RSD | 24 | 0.6 | ≤ 5% |

VALIDATION FINDINGS CHECKLIST
Quality Control Sample Recalculations

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

| Sample ID | Type of Analysis | Element | Found/S/I | True/D/SDR | Recalculated %R/RPD/%D | Reported %R/RPD/%D | Acceptable (Y/N) |
|-----------|------------------|---------|-----------|------------|---------------------------|-----------------------|------------------|
| LCS | LCS | Fe | 110.4 | 1000 | 11.04 | 110 | Y |
| 8 | MS | As | 118.691 | 100 | 118.691 | 119 | Y |
| 10 | Duplicate | Na | 42.61 | 45.074 | 5.620181561 | 5.63 | Y |
| 1 | PDS | Cr | 42.831 | 40 | 107.0775 | 107 | Y |
| 1 | Serial dilution | Ca | 120.85 | 121.6 | 0.616776316 | 0.6 | Y |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 19, 2020

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018049

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-14-3** | 2018049-02** | Water | 06/23/20 |
| EB-11-062320 | 2018049-03 | Water | 06/23/20 |
| MW-21-5 | 2018049-04 | Water | 06/23/20 |
| MW-21-4 | 2018049-05 | Water | 06/23/20 |
| MW-21-3 | 2018049-06 | Water | 06/23/20 |
| MW-21-2 | 2018049-07 | Water | 06/23/20 |
| DUP-6-2Q2020 | 2018049-08 | Water | 06/23/20 |
| MW-14-3MS | 2018049-02MS | Water | 06/23/20 |
| MW-14-3MSD | 2018049-02MSD | Water | 06/23/20 |
| MW-14-3DUP | 2018049-02DUP | Water | 06/23/20 |

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

Chloride, Nitrate as Nitrogen, and Sulfate by Environmental Protection Agency (EPA) Method 300.0

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

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 | 0.155 mg/L | All samples in SDG 2018049 |
| ICB/CCB | Chloride Sulfate Hexavalent chromium | 0.181 mg/L 0.403 mg/L 0.000043 mg/L | All samples in SDG 2018049 |

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|--------------|---------------------------------|----------------------------|------------------------------|
| MW-14-3** | Hexavalent chromium | 0.0001 mg/L | 0.0001U mg/L |
| EB-11-062320 | Hexavalent chromium Chloride | 0.000055 mg/L 0.19 mg/L | 0.000055U mg/L 0.19U mg/L |
| MW-21-3 | Hexavalent chromium | 0.00018 mg/L | 0.00018U mg/L |
| MW-21-2 | Hexavalent chromium | 0.000056 mg/L | 0.000056U mg/L |

V. Field Blanks

Sample EB-11-062320 was identified as an equipment blank. No contaminants were found with the following exceptions:

| Blank ID | Collection Date | Analyte | Concentration |
|--------------|-----------------|---|--|
| EB-11-062320 | 06/23/20 | Total dissolved solids Hexavalent chromium Chloride | 4.7 mg/L 0.000055 mg/L 0.19 mg/L |

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-21-2 and DUP-6-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|-------------------------|---------------|--------------|-----|
| | MW-21-2 | DUP-6-2Q2020 | |
| Alkalinity, bicarbonate | 350 mg/L | 340 mg/L | 3 |
| Alkalinity, total | 290 mg/L | 280 mg/L | 4 |
| Chloride | 170 mg/L | 170 mg/L | 0 |
| Hexavalent chromium | 0.000056 mg/L | 0.00036 mg/L | 146 |
| Nitrate as N | 4.6 mg/L | 5.4 mg/L | 16 |
| Nitrite as N | 0.39 mg/L | 0.29 mg/L | 29 |
| Perchlorate | 1.9 ug/L | 1.8 ug/L | 5 |
| pH | 7.30 pH unit | 7.28 pH unit | 0 |
| Sulfate | 170 mg/L | 170 mg/L | 0 |
| Total dissolved solids | 880 mg/L | 920 mg/L | 4 |

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in four samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2018049


No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2018049

| Sample | Analyte | Modified Final Concentration | A or P |
|--------------|------------------------------|------------------------------|--------|
| MW-14-3** | Hexavalent chromium | 0.0001U mg/L | A |
| EB-11-062320 | Hexavalent chromium Chloride | 0.000055U mg/L 0.19U mg/L | A |
| MW-21-3 | Hexavalent chromium | 0.00018U mg/L | A |
| MW-21-2 | Hexavalent chromium | 0.000056U mg/L | A |

LDC #: 48752C6
 SDG #: 2018049
 Laboratory: BC Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III/IV

Date: 8/13/20
 Page: 1 of 1
 Reviewer: ATJ
 2nd Reviewer: 

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|--|
| I. | Sample receipt/Technical holding times | A/A | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | SW | EB=2 |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | (8,9) |
| VII. | Duplicate sample analysis | A | 10 |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | SW | (6,7) |
| X. | Sample result verification | A | Not reviewed for Level III validation. |
| XI. | Overall assessment of data | A | |

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-14-3** | 2018049-02** | Water | 06/23/20 |
| 2 | EB-11-062320 | 2018049-03 | Water | 06/23/20 |
| 3 | MW-21-5 | 2018049-04 | Water | 06/23/20 |
| 4 | MW-21-4 | 2018049-05 | Water | 06/23/20 |
| 5 | MW-21-3 | 2018049-06 | Water | 06/23/20 |
| 6 | MW-21-2 | 2018049-07 | Water | 06/23/20 |
| 7 | DUP-6-2Q2020 | 2018049-08 | Water | 06/23/20 |
| 8 | MW-14-3MS | 2018049-02MS | Water | 06/23/20 |
| 9 | MW-14-3MSD | 2018049-02MSD | Water | 06/23/20 |
| 10 | MW-14-3DUP | 2018049-02DUP | Water | 06/23/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

Notes: _____

| METHOD: Inorganics | | | | |
|--|-----|----|----|----------|
| Validation Area | Yes | No | NA | Comments |
| I. Technical holding times | | | | |
| Were all technical holding times met? | X | | | |
| II. Calibration | | | | |
| Were all instruments calibrated at the required frequency? | X | | | |
| Were the proper number of standards used? | X | | | |
| Were all initial and continuing calibration verifications within the QC limits? | X | | | |
| Were all initial calibration correlation coefficients within limits as specified by the method? | X | | | |
| Were balance checks performed as required? | X | | | |
| III. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | X | | | |
| Was there contamination in the method blanks? | X | | | |
| Was there contamination in the initial and continuing calibration blanks? | X | | | |
| IV. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates | | | | |
| Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.) | X | | | |
| Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits? | X | | | |
| V. Laboratory Control Samples | | | | |
| Was a LCS analyzed for each batch in the SDG? | X | | | |
| Were the LCS recoveries and RPDs (if applicable) within QC limits? | X | | | |
| X. Sample Result Verification | | | | |
| Were all reporting limits adjusted to reflect sample dilutions? | X | | | |
| Were all soil samples dry weight corrected? | | | X | |
| XI. Overall Assessment of Data | | | | |
| Was the overall assessment of the data found to be acceptable? | X | | | |

| METHOD: Inorganics | | | | |
|--|-----|----|----|----------|
| Validation Area | Yes | No | NA | Comments |
| XII. Field Duplicates | | | | |
| Were field duplicates identified in this SDG? | X | | | |
| Were target analytes detected in the field duplicates? | X | | | |
| XIII. Field Blanks | | | | |
| Were field blanks identified in this SDG? | X | | | |
| Were target analytes detected in the field blanks? | X | | | |

METHOD: Inorganics

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: all

| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | Sample Identification | | | | | | | | | |
|------------------|-----------|------------------------|--------------|-----------------------|-----------|---------|----------|--|--|--|--|--|--|
| | | | | 1 | 2 | 5 | 6 | | | | | | |
| Cl | | 0.181 | 0.905 | | see below | | | | | | | | |
| SO ₄ | | 0.403 | 2.015 | | | | | | | | | | |
| Cr ⁶⁺ | | 0.000043 | 0.000215 | 0.0001 | 0.000055 | 0.00018 | 0.000056 | | | | | | |
| Cl | 0.155 | | 0.775 | | 0.19 | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

METHOD: Inorganics

Blank units: mg/L

Associated sample units: mg/L

Sampling Date: 6/23/20

Associated Samples: none

| | | | Sample Identification | | | | | | | | | | |
|---------|----------|------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Analyte | Blank ID | Blank Conc | Action Level | | | | | | | | | | |
| TDS | 2 | 4.7 | | | | | | | | | | | |
| Cr6+ | | 0.000055 | | | | | | | | | | | |
| Cl | | 0.19 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The action level, when applicable, is established at 5X the highest concentration.

Field Duplicates

Reviewer:

METHOD: Inorganics

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|------------------------|----------------------|---------|-----|---------------------------|
| | 6 | 7 | | |
| Alkalinity Bicarbonate | 350 | 340 | 3 | |
| Alkalinity Total | 290 | 280 | 4 | |
| Chloride | 170 | 170 | 0 | |
| Hexavalent Chromium | 0.000056 | 0.00036 | 146 | |
| Nitrate-N | 4.6 | 5.4 | 16 | |
| Nitrite-N | 0.39 | 0.29 | 29 | |
| Perchlorate (ug/L) | 1.9 | 1.8 | 5 | |
| pH (pH unit) | 7.30 | 7.28 | 0 | |
| Sulfate | 170 | 170 | 0 | |
| Total Dissolved Solids | 880 | 920 | 4 | |

Validation Findings Worksheet Initial and Continuing Calibration Calculation Verification

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of NO2 was recalculated. Calibration date: 06/05/20

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 | FOUND Standard | TRUE Conc. (mg/L) | Area | Recalculated | Reported | Acceptable (Y/N) |
|--------------------------|---------|----------------|-------------------|---------|---------------------|---------------------|------------------|
| | | | | | r or r ² | r or r ² | |
| Initial calibration | NO2 | s1 | 0.0 | 0.00638 | 0.99997 | 0.99997 | Y |
| | | s2 | 0.02 | 0.01806 | | | |
| | | s3 | 0.05 | 0.0343 | | | |
| | | s4 | 0.1 | 0.06053 | | | |
| | | s5 | 0.5 | 0.28111 | | | |
| | | s6 | 1 | 0.5494 | | | |
| Calibration verification | NO3-N | 4.975 | 5 | | 99.5 | 99.5 | Y |
| Calibration verification | Cr6+ | 24.104 | 25 | | 96.416 | 96.4 | Y |
| Calibration verification | ClO4- | 9.09 | 10 | | 90.9 | 91.9 | Y |

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS CHECKLIST
Quality Control Sample Recalculations

METHOD: Inorganics

Percent recoveries (%R) for the laboratory control sample (LCS) and matrix spike (MS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

| Sample ID | Type of Analysis | Element | Found/S | True/D | Recalculated %R/RPD | Reported %R/RPD | Acceptable (Y/N) |
|-----------|------------------|---------|---------|--------|---------------------|-----------------|------------------|
| LCS | LCS | Alk | 96.064 | 100 | 96.064 | 96.2 | Y |
| 8 | MS | NO3-N | 5.183 | 5.0505 | 102.6235026 | 103 | Y |
| 10 | Duplicate | TDS | 750 | 736.66 | 1.794626882 | 1.79 | Y |

NASA JPL, 2Q2020 - LDC# 48752C

SDG: 2018049

| Analytical Method | | EPA-150.1 | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|------|------|----------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | pH | 6/25/2020 | 7.28 | Y | y | v | | 0.05 | 0.05 | pH Units |
| EB-11-062320 | 2018049-03 | pH | 6/25/2020 | 6.59 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-14-3 | 2018049-02 | pH | 6/25/2020 | 7.75 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-21-2 | 2018049-07 | pH | 6/25/2020 | 7.3 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-21-3 | 2018049-06 | pH | 6/25/2020 | 7.34 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-21-4 | 2018049-05 | pH | 6/25/2020 | 7.62 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-21-5 | 2018049-04 | pH | 6/25/2020 | 8.01 | Y | y | v | | 0.05 | 0.05 | pH Units |

| Analytical Method | | EPA-160.1 | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Total Dissolved Solids @ 180 C | 6/25/2020 | 920 | Y | y | v | | 50 | 25 | mg/L |
| EB-11-062320 | 2018049-03 | Total Dissolved Solids @ 180 C | 6/25/2020 | 4.7 | Y | y | v j | | 6.7 | 3.3 | mg/L |
| MW-14-3 | 2018049-02 | Total Dissolved Solids @ 180 C | 6/25/2020 | 740 | Y | y | v | | 33 | 17 | mg/L |
| MW-21-2 | 2018049-07 | Total Dissolved Solids @ 180 C | 6/25/2020 | 880 | Y | y | v | | 50 | 25 | mg/L |
| MW-21-3 | 2018049-06 | Total Dissolved Solids @ 180 C | 6/25/2020 | 820 | Y | y | v | | 50 | 25 | mg/L |
| MW-21-4 | 2018049-05 | Total Dissolved Solids @ 180 C | 6/25/2020 | 640 | Y | y | v | | 33 | 17 | mg/L |
| MW-21-5 | 2018049-04 | Total Dissolved Solids @ 180 C | 6/25/2020 | 540 | Y | y | v | | 33 | 17 | mg/L |

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Iron | 6/30/2020 | 110 | Y | y | v | | 50 | 30 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Potassium | 6/30/2020 | 3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Sodium | 6/30/2020 | 56 | Y | y | v | | 0.50 | 0.051 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Magnesium | 6/30/2020 | 49 | Y | y | v | | 0.050 | 0.019 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Calcium | 6/30/2020 | 160 | Y | y | v | | 0.10 | 0.014 | mg/L |

SDG: 2018049

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-11-062320 | 2018049-03 | Total Recoverable Calcium | 6/30/2020 | 0.097 | Y | y | v j | | 0.10 | 0.014 | mg/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Potassium | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | mg/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Magnesium | 6/30/2020 | 0.03 | Y | y | v j | | 0.050 | 0.019 | mg/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Iron | 6/30/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Sodium | 6/30/2020 | 0.24 | Y | y | v j | | 0.50 | 0.051 | mg/L |
| MW-14-3 | 2018049-02 | Total Recoverable Calcium | 6/30/2020 | 120 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-14-3 | 2018049-02 | Total Recoverable Iron | 6/30/2020 | 130 | Y | y | v | | 50 | 30 | ug/L |
| MW-14-3 | 2018049-02 | Total Recoverable Potassium | 6/30/2020 | 3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-14-3 | 2018049-02 | Total Recoverable Magnesium | 6/30/2020 | 47 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-14-3 | 2018049-02 | Total Recoverable Sodium | 6/30/2020 | 45 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-21-2 | 2018049-07 | Total Recoverable Calcium | 6/30/2020 | 160 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-21-2 | 2018049-07 | Total Recoverable Sodium | 6/30/2020 | 58 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-21-2 | 2018049-07 | Total Recoverable Magnesium | 6/30/2020 | 51 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-21-2 | 2018049-07 | Total Recoverable Iron | 6/30/2020 | 380 | Y | y | v | | 50 | 30 | ug/L |
| MW-21-2 | 2018049-07 | Total Recoverable Potassium | 6/30/2020 | 3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-21-3 | 2018049-06 | Total Recoverable Calcium | 6/30/2020 | 140 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-21-3 | 2018049-06 | Total Recoverable Sodium | 6/30/2020 | 58 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-21-3 | 2018049-06 | Total Recoverable Magnesium | 6/30/2020 | 42 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-21-3 | 2018049-06 | Total Recoverable Potassium | 6/30/2020 | 3.4 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-21-3 | 2018049-06 | Total Recoverable Iron | 6/30/2020 | 480 | Y | y | v | | 50 | 30 | ug/L |
| MW-21-4 | 2018049-05 | Total Recoverable Potassium | 6/30/2020 | 2.6 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-21-4 | 2018049-05 | Total Recoverable Iron | 6/30/2020 | 63 | Y | y | v | | 50 | 30 | ug/L |
| MW-21-4 | 2018049-05 | Total Recoverable Sodium | 6/30/2020 | 34 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-21-4 | 2018049-05 | Total Recoverable Calcium | 6/30/2020 | 110 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-21-4 | 2018049-05 | Total Recoverable Magnesium | 6/30/2020 | 33 | Y | y | v | | 0.050 | 0.019 | mg/L |

SDG: 2018049

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-5 | 2018049-04 | Total Recoverable Sodium | 6/30/2020 | 36 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-21-5 | 2018049-04 | Total Recoverable Iron | 6/30/2020 | 260 | Y | y | v | | 50 | 30 | ug/L |
| MW-21-5 | 2018049-04 | Total Recoverable Calcium | 6/30/2020 | 87 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-21-5 | 2018049-04 | Total Recoverable Magnesium | 6/30/2020 | 26 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-21-5 | 2018049-04 | Total Recoverable Potassium | 6/30/2020 | 2.5 | Y | y | v | | 1.0 | 0.10 | mg/L |

| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Chromium | 6/26/2020 | 0.88 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Chromium | 6/26/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| EB-11-062320 | 2018049-03 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-14-3 | 2018049-02 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-14-3 | 2018049-02 | Total Recoverable Chromium | 6/26/2020 | 0.64 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-14-3 | 2018049-02 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-21-2 | 2018049-07 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-21-2 | 2018049-07 | Total Recoverable Chromium | 6/26/2020 | 7 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-21-2 | 2018049-07 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-21-3 | 2018049-06 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-21-3 | 2018049-06 | Total Recoverable Chromium | 6/26/2020 | 7.6 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-21-3 | 2018049-06 | Total Recoverable Lead | 6/26/2020 | 0.12 | Y | y | v j | | 1.0 | 0.10 | ug/L |
| MW-21-4 | 2018049-05 | Total Recoverable Arsenic | 6/26/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-21-4 | 2018049-05 | Total Recoverable Lead | 6/26/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |

SDG: 2018049

| 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-21-4 | 2018049-05 | Total Recoverable Chromium | 6/26/2020 | 1.4 | Y | y | v j | | 3.0 | 0.50 | ug/L |
| MW-21-5 | 2018049-04 | Total Recoverable Lead | 6/26/2020 | 0.2 | Y | y | v j | | 1.0 | 0.10 | ug/L |
| MW-21-5 | 2018049-04 | Total Recoverable Arsenic | 6/26/2020 | 1.2 | Y | y | v j | U | 2.0 | 0.70 | ug/L |
| MW-21-5 | 2018049-04 | Total Recoverable Chromium | 6/26/2020 | 4.8 | 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-6-2Q2020 | 2018049-08 | Hexavalent Chromium | 6/25/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| EB-11-062320 | 2018049-03 | Hexavalent Chromium | 6/25/2020 | ##### | Y | y | v j | U | 0.0002 | 0.0000 | mg/L |
| MW-14-3 | 2018049-02 | Hexavalent Chromium | 6/25/2020 | 0.0001 | Y | y | v j | U | 0.0002 | 0.0000 | mg/L |
| MW-21-2 | 2018049-07 | Hexavalent Chromium | 6/25/2020 | ##### | Y | y | v j | U | 0.0002 | 0.0000 | mg/L |
| MW-21-3 | 2018049-06 | Hexavalent Chromium | 6/25/2020 | ##### | Y | y | v j | U | 0.0002 | 0.0000 | mg/L |
| MW-21-4 | 2018049-05 | Hexavalent Chromium | 6/25/2020 | 0.0012 | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-21-5 | 2018049-04 | Hexavalent Chromium | 6/25/2020 | 0.0012 | 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 |
| DUP-6-2Q2020 | 2018049-08 | Nitrate as N | 6/24/2020 | 5.4 | Y | y | v | | 0.10 | 0.024 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Sulfate | 6/24/2020 | 170 | Y | y | v | | 1.0 | 0.14 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Chloride | 6/24/2020 | 170 | Y | y | v | | 0.50 | 0.13 | mg/L |
| EB-11-062320 | 2018049-03 | Nitrate as N | 6/24/2020 | 0.1 | Y | n | u | | 0.10 | 0.024 | mg/L |
| EB-11-062320 | 2018049-03 | Sulfate | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.14 | mg/L |
| EB-11-062320 | 2018049-03 | Chloride | 6/24/2020 | 0.19 | Y | y | v j | U | 0.50 | 0.13 | mg/L |
| MW-14-3 | 2018049-02 | Chloride | 6/23/2020 | 100 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-14-3 | 2018049-02 | Nitrate as N | 6/23/2020 | 12 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-14-3 | 2018049-02 | Sulfate | 6/23/2020 | 160 | Y | y | v | | 1.0 | 0.14 | mg/L |

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| Analytical Method | | EPA-300.0 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-2 | 2018049-07 | Chloride | 6/23/2020 | 170 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-21-2 | 2018049-07 | Nitrate as N | 6/23/2020 | 4.6 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-21-2 | 2018049-07 | Sulfate | 6/23/2020 | 170 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-21-3 | 2018049-06 | Chloride | 6/23/2020 | 130 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-21-3 | 2018049-06 | Sulfate | 6/23/2020 | 160 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-21-3 | 2018049-06 | Nitrate as N | 6/23/2020 | 9.7 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-21-4 | 2018049-05 | Sulfate | 6/23/2020 | 140 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-21-4 | 2018049-05 | Nitrate as N | 6/23/2020 | 8.4 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-21-4 | 2018049-05 | Chloride | 6/23/2020 | 96 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-21-5 | 2018049-04 | Sulfate | 6/23/2020 | 120 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-21-5 | 2018049-04 | Nitrate as N | 6/23/2020 | 6.9 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-21-5 | 2018049-04 | Chloride | 6/23/2020 | 75 | Y | y | v | | 0.50 | 0.13 | mg/L |

| Analytical Method | | EPA-314.0 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Perchlorate | 7/1/2020 | 1.8 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| EB-11-062320 | 2018049-03 | Perchlorate | 7/1/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-14-3 | 2018049-02 | Perchlorate | 7/1/2020 | 6 | Y | y | v | | 4.0 | 0.81 | ug/L |
| MW-21-2 | 2018049-07 | Perchlorate | 7/1/2020 | 1.9 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-21-3 | 2018049-06 | Perchlorate | 7/1/2020 | 3.2 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-21-4 | 2018049-05 | Perchlorate | 7/1/2020 | 3.7 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-21-5 | 2018049-04 | Perchlorate | 7/1/2020 | 2.4 | Y | y | v j | | 4.0 | 0.81 | ug/L |

| Analytical Method | | EPA-353.2 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Nitrite as N | 6/23/2020 | 0.29 | Y | y | v | | 0.050 | 0.010 | mg/L |

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| Analytical Method | | EPA-353.2 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-11-062320 | 2018049-03 | Nitrite as N | 6/23/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-14-3 | 2018049-02 | Nitrite as N | 6/23/2020 | 0.39 | Y | y | v | | 0.050 | 0.010 | mg/L |
| MW-21-2 | 2018049-07 | Nitrite as N | 6/23/2020 | 0.39 | Y | y | v | | 0.050 | 0.010 | mg/L |
| MW-21-3 | 2018049-06 | Nitrite as N | 6/23/2020 | 0.082 | Y | y | v | | 0.050 | 0.010 | mg/L |
| MW-21-4 | 2018049-05 | Nitrite as N | 6/23/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-21-5 | 2018049-04 | Nitrite as N | 6/23/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Chloroethane | 6/24/2020 | 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 |
| DUP-6-2Q2020 | 2018049-08 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Chloroform | 6/24/2020 | 0.42 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Tetrachloroethene | 6/24/2020 | 1.8 | Y | y | v | | 0.50 | 0.23 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Trichloroethene | 6/24/2020 | 0.22 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| DUP-6-2Q2020 | 2018049-08 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| DUP-6-2Q2020 | 2018049-08 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-11-062320 | 2018049-03 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| EB-11-062320 | 2018049-03 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-11-062320 | 2018049-03 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-11-062320 | 2018049-03 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-11-062320 | 2018049-03 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-11-062320 | 2018049-03 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-11-062320 | 2018049-03 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| EB-11-062320 | 2018049-03 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| EB-11-062320 | 2018049-03 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| EB-11-062320 | 2018049-03 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-11-062320 | 2018049-03 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| EB-11-062320 | 2018049-03 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| EB-11-062320 | 2018049-03 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| EB-11-062320 | 2018049-03 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-11-062320 | 2018049-03 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-11-062320 | 2018049-03 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-11-062320 | 2018049-03 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|--------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-11-062320 | 2018049-03 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| EB-11-062320 | 2018049-03 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-11-062320 | 2018049-03 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-11-062320 | 2018049-03 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-11-062320 | 2018049-03 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-11-062320 | 2018049-03 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-11-062320 | 2018049-03 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-11-062320 | 2018049-03 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| EB-11-062320 | 2018049-03 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| EB-11-062320 | 2018049-03 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| EB-11-062320 | 2018049-03 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| EB-11-062320 | 2018049-03 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| EB-11-062320 | 2018049-03 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| EB-11-062320 | 2018049-03 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-11-062320 | 2018049-03 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| EB-11-062320 | 2018049-03 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| EB-11-062320 | 2018049-03 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| EB-11-062320 | 2018049-03 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| EB-11-062320 | 2018049-03 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-11-062320 | 2018049-03 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| EB-11-062320 | 2018049-03 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| EB-11-062320 | 2018049-03 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| EB-11-062320 | 2018049-03 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-11-062320 | 2018049-03 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-11-062320 | 2018049-03 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| EB-11-062320 | 2018049-03 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| EB-11-062320 | 2018049-03 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-11-062320 | 2018049-03 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| EB-11-062320 | 2018049-03 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-11-062320 | 2018049-03 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| EB-11-062320 | 2018049-03 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| EB-11-062320 | 2018049-03 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| EB-11-062320 | 2018049-03 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| EB-11-062320 | 2018049-03 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| EB-11-062320 | 2018049-03 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| EB-11-062320 | 2018049-03 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-11-062320 | 2018049-03 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-11-062320 | 2018049-03 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| EB-11-062320 | 2018049-03 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| EB-11-062320 | 2018049-03 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| EB-11-062320 | 2018049-03 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| EB-11-062320 | 2018049-03 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| EB-11-062320 | 2018049-03 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-3 | 2018049-02 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-3 | 2018049-02 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-14-3 | 2018049-02 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-14-3 | 2018049-02 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-3 | 2018049-02 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-14-3 | 2018049-02 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-14-3 | 2018049-02 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-3 | 2018049-02 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-14-3 | 2018049-02 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | Chloroform | 6/24/2020 | 0.85 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-14-3 | 2018049-02 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-3 | 2018049-02 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-3 | 2018049-02 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-3 | 2018049-02 | sec-Butylbenzene | 6/24/2020 | 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-14-3 | 2018049-02 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-14-3 | 2018049-02 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-14-3 | 2018049-02 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-3 | 2018049-02 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-3 | 2018049-02 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-3 | 2018049-02 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-3 | 2018049-02 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-3 | 2018049-02 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-3 | 2018049-02 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-14-3 | 2018049-02 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-14-3 | 2018049-02 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-14-3 | 2018049-02 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-3 | 2018049-02 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-3 | 2018049-02 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-3 | 2018049-02 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-3 | 2018049-02 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-3 | 2018049-02 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-14-3 | 2018049-02 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-3 | 2018049-02 | 1,1-Dichloroethane | 6/24/2020 | 0.65 | Y | y | v | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-3 | 2018049-02 | Pentachloroethane | 6/24/2020 | 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-14-3 | 2018049-02 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-14-3 | 2018049-02 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-14-3 | 2018049-02 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-14-3 | 2018049-02 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-14-3 | 2018049-02 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-14-3 | 2018049-02 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-14-3 | 2018049-02 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-14-3 | 2018049-02 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-14-3 | 2018049-02 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-14-3 | 2018049-02 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-14-3 | 2018049-02 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-14-3 | 2018049-02 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-14-3 | 2018049-02 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-14-3 | 2018049-02 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-14-3 | 2018049-02 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-14-3 | 2018049-02 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-14-3 | 2018049-02 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-3 | 2018049-02 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-3 | 2018049-02 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-14-3 | 2018049-02 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-14-3 | 2018049-02 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-3 | 2018049-02 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-3 | 2018049-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-3 | 2018049-02 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-14-3 | 2018049-02 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-14-3 | 2018049-02 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-14-3 | 2018049-02 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-3 | 2018049-02 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-14-3 | 2018049-02 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-14-3 | 2018049-02 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-14-3 | 2018049-02 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-3 | 2018049-02 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.19 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-14-3 | 2018049-02 | Trichloroethene | 6/24/2020 | 1.9 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-14-3 | 2018049-02 | Tetrachloroethene | 6/24/2020 | 1.1 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-14-3 | 2018049-02 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-14-3 | 2018049-02 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-14-3 | 2018049-02 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-3 | 2018049-02 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-14-3 | 2018049-02 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-2 | 2018049-07 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-21-2 | 2018049-07 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-21-2 | 2018049-07 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-2 | 2018049-07 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-21-2 | 2018049-07 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | 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-21-2 | 2018049-07 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-21-2 | 2018049-07 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-21-2 | 2018049-07 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-2 | 2018049-07 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-21-2 | 2018049-07 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-21-2 | 2018049-07 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-2 | 2018049-07 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-21-2 | 2018049-07 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-2 | 2018049-07 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-21-2 | 2018049-07 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-21-2 | 2018049-07 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-2 | 2018049-07 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-2 | 2018049-07 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-2 | 2018049-07 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-2 | 2018049-07 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-2 | 2018049-07 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-2 | 2018049-07 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-2 | 2018049-07 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-21-2 | 2018049-07 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-21-2 | 2018049-07 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-21-2 | 2018049-07 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-21-2 | 2018049-07 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-21-2 | 2018049-07 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-21-2 | 2018049-07 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-2 | 2018049-07 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-21-2 | 2018049-07 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-2 | 2018049-07 | Chloroform | 6/24/2020 | 0.47 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-2 | 2018049-07 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-2 | 2018049-07 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-2 | 2018049-07 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-21-2 | 2018049-07 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-2 | 2018049-07 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-21-2 | 2018049-07 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-2 | 2018049-07 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-21-2 | 2018049-07 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-2 | 2018049-07 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-2 | 2018049-07 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-2 | 2018049-07 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-2 | 2018049-07 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-2 | 2018049-07 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-21-2 | 2018049-07 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-2 | 2018049-07 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-2 | 2018049-07 | Carbon tetrachloride | 6/24/2020 | 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-21-2 | 2018049-07 | Trichloroethene | 6/24/2020 | 0.27 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-21-2 | 2018049-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-2 | 2018049-07 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-2 | 2018049-07 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-2 | 2018049-07 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-21-2 | 2018049-07 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-2 | 2018049-07 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-21-2 | 2018049-07 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-2 | 2018049-07 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-2 | 2018049-07 | Tetrachloroethene | 6/24/2020 | 2 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-21-2 | 2018049-07 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-2 | 2018049-07 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-2 | 2018049-07 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-2 | 2018049-07 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-2 | 2018049-07 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-2 | 2018049-07 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-2 | 2018049-07 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-2 | 2018049-07 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-2 | 2018049-07 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | trans-1,3-Dichloropropene | 6/24/2020 | 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-21-2 | 2018049-07 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-2 | 2018049-07 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-2 | 2018049-07 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-2 | 2018049-07 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-2 | 2018049-07 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-3 | 2018049-06 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-3 | 2018049-06 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-3 | 2018049-06 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-3 | 2018049-06 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-21-3 | 2018049-06 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-3 | 2018049-06 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-3 | 2018049-06 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-21-3 | 2018049-06 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-3 | 2018049-06 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-3 | 2018049-06 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-21-3 | 2018049-06 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-3 | 2018049-06 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-3 | 2018049-06 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-3 | 2018049-06 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-3 | 2018049-06 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-3 | 2018049-06 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-3 | 2018049-06 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-3 | 2018049-06 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-21-3 | 2018049-06 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-21-3 | 2018049-06 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-3 | 2018049-06 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-3 | 2018049-06 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | Chloroform | 6/24/2020 | 0.71 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-3 | 2018049-06 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-3 | 2018049-06 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-21-3 | 2018049-06 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-21-3 | 2018049-06 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-21-3 | 2018049-06 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-3 | 2018049-06 | t-Butyl alcohol | 6/24/2020 | 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-21-3 | 2018049-06 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-21-3 | 2018049-06 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-21-3 | 2018049-06 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-21-3 | 2018049-06 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-21-3 | 2018049-06 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-21-3 | 2018049-06 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-3 | 2018049-06 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-21-3 | 2018049-06 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-21-3 | 2018049-06 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-3 | 2018049-06 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-21-3 | 2018049-06 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-21-3 | 2018049-06 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-21-3 | 2018049-06 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-21-3 | 2018049-06 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-21-3 | 2018049-06 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-21-3 | 2018049-06 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-21-3 | 2018049-06 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-3 | 2018049-06 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-3 | 2018049-06 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-3 | 2018049-06 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-21-3 | 2018049-06 | Tetrachloroethene | 6/24/2020 | 2.3 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-21-3 | 2018049-06 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-3 | 2018049-06 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-3 | 2018049-06 | Isopropylbenzene | 6/24/2020 | 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 | 2018049-06 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-3 | 2018049-06 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-3 | 2018049-06 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-3 | 2018049-06 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-3 | 2018049-06 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-21-3 | 2018049-06 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-3 | 2018049-06 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-3 | 2018049-06 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-3 | 2018049-06 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-3 | 2018049-06 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-3 | 2018049-06 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-3 | 2018049-06 | Trichloroethene | 6/24/2020 | 2 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-21-3 | 2018049-06 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-3 | 2018049-06 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-3 | 2018049-06 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-4 | 2018049-05 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-21-4 | 2018049-05 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-4 | 2018049-05 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | 1,2-Dichloroethane | 6/24/2020 | 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-21-4 | 2018049-05 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-4 | 2018049-05 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-4 | 2018049-05 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-4 | 2018049-05 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-4 | 2018049-05 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-4 | 2018049-05 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-21-4 | 2018049-05 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-4 | 2018049-05 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-4 | 2018049-05 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-4 | 2018049-05 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-21-4 | 2018049-05 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-4 | 2018049-05 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-4 | 2018049-05 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-4 | 2018049-05 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-4 | 2018049-05 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-21-4 | 2018049-05 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-21-4 | 2018049-05 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-4 | 2018049-05 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-4 | 2018049-05 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-4 | 2018049-05 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-4 | 2018049-05 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-4 | 2018049-05 | Chloroform | 6/24/2020 | 7.8 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-4 | 2018049-05 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-21-4 | 2018049-05 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-4 | 2018049-05 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-21-4 | 2018049-05 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-4 | 2018049-05 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-4 | 2018049-05 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-4 | 2018049-05 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-21-4 | 2018049-05 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-21-4 | 2018049-05 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-21-4 | 2018049-05 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-4 | 2018049-05 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-21-4 | 2018049-05 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-21-4 | 2018049-05 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-21-4 | 2018049-05 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-21-4 | 2018049-05 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-21-4 | 2018049-05 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-21-4 | 2018049-05 | t-Butyl alcohol | 6/24/2020 | 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-21-4 | 2018049-05 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-21-4 | 2018049-05 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-21-4 | 2018049-05 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-4 | 2018049-05 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-4 | 2018049-05 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-4 | 2018049-05 | 1,1-Dichloropropanone | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-4 | 2018049-05 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-4 | 2018049-05 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-4 | 2018049-05 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-21-4 | 2018049-05 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-4 | 2018049-05 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-4 | 2018049-05 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-4 | 2018049-05 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-4 | 2018049-05 | Tetrachloroethene | 6/24/2020 | 2.6 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-21-4 | 2018049-05 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-4 | 2018049-05 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-4 | 2018049-05 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-4 | 2018049-05 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-4 | 2018049-05 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-21-4 | 2018049-05 | Trichloroethene | 6/24/2020 | 0.81 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-21-4 | 2018049-05 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-4 | 2018049-05 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-21-4 | 2018049-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-4 | 2018049-05 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-4 | 2018049-05 | 1,3,5-Trimethylbenzene | 6/24/2020 | 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-21-4 | 2018049-05 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-4 | 2018049-05 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-21-4 | 2018049-05 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-21-4 | 2018049-05 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-21-4 | 2018049-05 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-4 | 2018049-05 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-5 | 2018049-04 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-5 | 2018049-04 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-5 | 2018049-04 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-5 | 2018049-04 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-5 | 2018049-04 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-5 | 2018049-04 | Tetrachloroethene | 6/24/2020 | 1.9 | Y | y | v | | 0.50 | 0.23 | ug/L |
| MW-21-5 | 2018049-04 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-21-5 | 2018049-04 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-5 | 2018049-04 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-5 | 2018049-04 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-21-5 | 2018049-04 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-5 | 2018049-04 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-5 | 2018049-04 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-21-5 | 2018049-04 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-5 | 2018049-04 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-21-5 | 2018049-04 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-5 | 2018049-04 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-21-5 | 2018049-04 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-21-5 | 2018049-04 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-21-5 | 2018049-04 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-21-5 | 2018049-04 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-21-5 | 2018049-04 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-5 | 2018049-04 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-5 | 2018049-04 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-21-5 | 2018049-04 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-21-5 | 2018049-04 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-21-5 | 2018049-04 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-21-5 | 2018049-04 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-21-5 | 2018049-04 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-21-5 | 2018049-04 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-21-5 | 2018049-04 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-21-5 | 2018049-04 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-21-5 | 2018049-04 | Trichloroethene | 6/24/2020 | 0.27 | Y | y | v j | | 0.50 | 0.19 | ug/L |
| MW-21-5 | 2018049-04 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-21-5 | 2018049-04 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-21-5 | 2018049-04 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-5 | 2018049-04 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| MW-21-5 | 2018049-04 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-21-5 | 2018049-04 | Chloroform | 6/24/2020 | 9.5 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-5 | 2018049-04 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-5 | 2018049-04 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-5 | 2018049-04 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-21-5 | 2018049-04 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-5 | 2018049-04 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-5 | 2018049-04 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-21-5 | 2018049-04 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-5 | 2018049-04 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-5 | 2018049-04 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| MW-21-5 | 2018049-04 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-21-5 | 2018049-04 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-5 | 2018049-04 | 1,1-Dichloropropanone | 6/24/2020 | 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 | 2018049-04 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-21-5 | 2018049-04 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-21-5 | 2018049-04 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-5 | 2018049-04 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-21-5 | 2018049-04 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-21-5 | 2018049-04 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-21-5 | 2018049-04 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-21-5 | 2018049-04 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-21-5 | 2018049-04 | 1,2-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-21-5 | 2018049-04 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-21-5 | 2018049-04 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-5 | 2018049-04 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-21-5 | 2018049-04 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-21-5 | 2018049-04 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-21-5 | 2018049-04 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-21-5 | 2018049-04 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | Dichlorodifluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | 1,4-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | 1,3-Dichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-11-062320 | 2018049-01 | Dibromomethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-11-062320 | 2018049-01 | trans-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2-Dibromoethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2-Dichlorobenzene | 6/24/2020 | 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 |
| TB-11-062320 | 2018049-01 | 1,1-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2-Dichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | cis-1,2-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | 1,3-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2-Dibromo-3-chloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-11-062320 | 2018049-01 | 1,1-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-11-062320 | 2018049-01 | n-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | 2,2-Dichloropropane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-11-062320 | 2018049-01 | 1,1-Dichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-11-062320 | 2018049-01 | sec-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-11-062320 | 2018049-01 | cis-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Vinyl chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-11-062320 | 2018049-01 | Benzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-11-062320 | 2018049-01 | Bromobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | Bromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-11-062320 | 2018049-01 | Bromodichloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-11-062320 | 2018049-01 | tert-Butylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-11-062320 | 2018049-01 | Bromomethane | 6/24/2020 | 0.5 | Y | n | u | UJ | 0.50 | 0.20 | ug/L |
| TB-11-062320 | 2018049-01 | Dibromochloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-11-062320 | 2018049-01 | Carbon tetrachloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | Chlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Chloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | Chloroform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Chloromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |

SDG: 2018049

| 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-11-062320 | 2018049-01 | 2-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | 4-Chlorotoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-11-062320 | 2018049-01 | Bromoform | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-11-062320 | 2018049-01 | Methyl methacrylate | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-11-062320 | 2018049-01 | t-Butyl alcohol | 6/24/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-11-062320 | 2018049-01 | Carbon disulfide | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-11-062320 | 2018049-01 | trans-1,4-Dichloro-2-butene | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| TB-11-062320 | 2018049-01 | Diethyl ether | 6/24/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| TB-11-062320 | 2018049-01 | Ethyl methacrylate | 6/24/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-11-062320 | 2018049-01 | Ethyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-11-062320 | 2018049-01 | Hexachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-11-062320 | 2018049-01 | trans-1,3-Dichloropropene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-11-062320 | 2018049-01 | Methacrylonitrile | 6/24/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2,4-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | t-Amyl Methyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-11-062320 | 2018049-01 | Methyl isobutyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-11-062320 | 2018049-01 | 2-Hexanone | 6/24/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-11-062320 | 2018049-01 | Pentachloroethane | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| TB-11-062320 | 2018049-01 | Propionitrile | 6/24/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-11-062320 | 2018049-01 | Tetrahydrofuran | 6/24/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-11-062320 | 2018049-01 | p- & m-Xylenes | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-11-062320 | 2018049-01 | o-Xylene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-11-062320 | 2018049-01 | Chloroacetonitrile | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-11-062320 | 2018049-01 | 1-Chlorobutane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-11-062320 | 2018049-01 | 1,1-Dichloropropanone | 6/24/2020 | 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 |
| TB-11-062320 | 2018049-01 | Methyl acrylate | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-11-062320 | 2018049-01 | Nitrobenzene | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-11-062320 | 2018049-01 | 2-Nitropropane | 6/24/2020 | 0 | Y | y | v | | | | ug/L |
| TB-11-062320 | 2018049-01 | Methyl iodide | 6/24/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-11-062320 | 2018049-01 | p-Isopropyltoluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Ethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | Methyl ethyl ketone | 6/24/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-11-062320 | 2018049-01 | Isopropylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Allyl chloride | 6/24/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-11-062320 | 2018049-01 | Methylene chloride | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-11-062320 | 2018049-01 | Methyl t-butyl ether | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Naphthalene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-11-062320 | 2018049-01 | n-Propylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-11-062320 | 2018049-01 | Styrene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-11-062320 | 2018049-01 | 1,1,1,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-11-062320 | 2018049-01 | 1,1,2,2-Tetrachloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | Tetrachloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2,3-Trichloropropane | 6/24/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-11-062320 | 2018049-01 | Hexachlorobutadiene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-11-062320 | 2018049-01 | Acrylonitrile | 6/24/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-11-062320 | 2018049-01 | Acetone | 6/24/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-11-062320 | 2018049-01 | Toluene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-11-062320 | 2018049-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-11-062320 | 2018049-01 | Trichlorofluoromethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-11-062320 | 2018049-01 | Trichloroethene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |

SDG: 2018049

| 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-11-062320 | 2018049-01 | 1,1,2-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-11-062320 | 2018049-01 | 1,1,1-Trichloroethane | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2,4-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-11-062320 | 2018049-01 | 1,2,3-Trichlorobenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-11-062320 | 2018049-01 | 1,3,5-Trimethylbenzene | 6/24/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

| Analytical Method | | SM-2320B | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| DUP-6-2Q2020 | 2018049-08 | Total Alkalinity as CaCO3 | 6/25/2020 | 280 | Y | y | v | | 8.2 | 8.2 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Carbonate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| DUP-6-2Q2020 | 2018049-08 | Bicarbonate | 6/25/2020 | 340 | Y | y | v | | 10 | 10 | mg/L |
| EB-11-062320 | 2018049-03 | Total Alkalinity as CaCO3 | 6/25/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| EB-11-062320 | 2018049-03 | Carbonate | 6/25/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| EB-11-062320 | 2018049-03 | Bicarbonate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-14-3 | 2018049-02 | Bicarbonate | 6/25/2020 | 270 | Y | y | v | | 10 | 10 | mg/L |
| MW-14-3 | 2018049-02 | Carbonate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-14-3 | 2018049-02 | Total Alkalinity as CaCO3 | 6/25/2020 | 220 | Y | y | v | | 8.2 | 8.2 | mg/L |
| MW-21-2 | 2018049-07 | Total Alkalinity as CaCO3 | 6/25/2020 | 290 | Y | y | v | | 8.2 | 8.2 | mg/L |
| MW-21-2 | 2018049-07 | Carbonate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-21-2 | 2018049-07 | Bicarbonate | 6/25/2020 | 350 | Y | y | v | | 10 | 10 | mg/L |
| MW-21-3 | 2018049-06 | Bicarbonate | 6/25/2020 | 360 | Y | y | v | | 10 | 10 | mg/L |
| MW-21-3 | 2018049-06 | Total Alkalinity as CaCO3 | 6/25/2020 | 290 | Y | y | v | | 8.2 | 8.2 | mg/L |
| MW-21-3 | 2018049-06 | Carbonate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-21-4 | 2018049-05 | Bicarbonate | 6/25/2020 | 230 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-21-4 | 2018049-05 | Carbonate | 6/25/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |

SDG: 2018049

Analytical Method SM-2320B

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| MW-21-4 | 2018049-05 | Total Alkalinity as CaCO3 | 6/25/2020 | 180 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-21-5 | 2018049-04 | Bicarbonate | 6/25/2020 | 200 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-21-5 | 2018049-04 | Carbonate | 6/25/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-21-5 | 2018049-04 | Total Alkalinity as CaCO3 | 6/25/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 14, 2020

Parameters: Volatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018201

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-12-062420 | 2018201-01 | Water | 06/24/20 |
| MW-5 | 2018201-02 | Water | 06/24/20 |
| MW-10 | 2018201-03 | Water | 06/24/20 |
| MW-13 | 2018201-04 | Water | 06/24/20 |

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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/18/20 | Pentachloroethane | 76.0 | All samples in SDG 2018201 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/25/20 | Methyl iodide | 60.1 | All samples in SDG 2018201 | 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-12-062420 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

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to ICV %D and 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, 2Q2020
Volatiles - Data Qualification Summary - SDG 2018201**

| Sample | Compound | Flag | A or P | Reason |
|--|-------------------|----------------------|--------|---------------------------------------|
| TB-12-062420 MW-5 MW-10 MW-13 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-12-062420 MW-5 MW-10 MW-13 | Methyl iodide | UJ (all non-detects) | P | Continuing calibration (%D) |

**NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2018201**

No Sample Data Qualified in this SDG

LDC #: 48752D1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2018201

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/17/20

Page: 1 of 1

Reviewer: _____

2nd Reviewer: _____

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|---------------------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A-M | RSD ≤ 20% . Y ² CV ≤ 30% |
| IV. | Continuing calibration | M | CCV ≤ 30% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB = 1 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| 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-12-062420 | 2018201-01 | Water | 06/24/20 |
| 2 | MW-5 | 2018201-02 | Water | 06/24/20 |
| 3 | MW-10 | 2018201-03 | Water | 06/24/20 |
| 4 | MW-13 | 2018201-04 | Water | 06/24/20 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

TARGET COMPOUND WORKSHEET

METHOD: VOA

| | | | | |
|------------------------------|---------------------------------|--|-----------------------------------|----------------------------|
| A. Chloromethane | AA. Tetrachloroethene | AAA. 1,3,5-Trimethylbenzene | AAAA. Ethyl tert-butyl ether | A1. 1,3-Butadiene |
| B. Bromomethane | BB. 1,1,2,2-Tetrachloroethane | BBB. 4-Chlorotoluene | BBBB. tert-Amyl methyl ether | B1. Hexane |
| C. Vinyl chloride | CC. Toluene | CCC. tert-Butylbenzene | CCCC. 1-Chlorohexane | C1. Heptane |
| D. Chloroethane | DD. Chlorobenzene | DDD. 1,2,4-Trimethylbenzene | DDDD. Isopropyl alcohol | D1. Propylene |
| E. Methylene chloride | EE. Ethylbenzene | EEE. sec-Butylbenzene | EEEE. Acetonitrile | E1. Freon 11 |
| F. Acetone | FF. Styrene | FFF. 1,3-Dichlorobenzene | FFFF. Acrolein | F1. Freon 12 |
| G. Carbon disulfide | GG. Xylenes, total | GGG. p-Isopropyltoluene | GGGG. Acrylonitrile | G1. Freon 113 |
| H. 1,1-Dichloroethene | HH. Vinyl acetate | HHH. 1,4-Dichlorobenzene | HHHH. 1,4-Dioxane | H1. Freon 114 |
| I. 1,1-Dichloroethane | II. 2-Chloroethylvinyl ether | III. n-Butylbenzene | IIII. Isobutyl alcohol | I1. 2-Nitropropane |
| J. 1,2-Dichloroethene, total | JJ. Dichlorodifluoromethane | JJJ. 1,2-Dichlorobenzene | JJJJ. Methacrylonitrile | J1. Dimethyl disulfide |
| K. Chloroform | KK. Trichlorofluoromethane | KKK. 1,2,4-Trichlorobenzene | KKKK. Propionitrile | K1. 2,3-Dimethyl pentane |
| L. 1,2-Dichloroethane | LL. Methyl-tert-butyl ether | LLL. Hexachlorobutadiene | LLLL. Ethyl ether | L1. 2,4-Dimethyl pentane |
| M. 2-Butanone | MM. 1,2-Dibromo-3-chloropropane | MMM. Naphthalene | MMMM. Benzyl chloride | M1. 3,3-Dimethyl pentane |
| N. 1,1,1-Trichloroethane | NN. Methyl ethyl ketone | NNN. 1,2,3-Trichlorobenzene | NNNN. Iodomethane | N1. 2-Methylpentane |
| O. Carbon tetrachloride | OO. 2,2-Dichloropropane | OOO. 1,3,5-Trichlorobenzene | OOOO. 1,1-Difluoroethane | O1. 3-Methylpentane |
| P. Bromodichloromethane | PP. Bromochloromethane | PPP. trans-1,2-Dichloroethene | PPPP. Tetrahydrofuran | P1. 3-Ethylpentane |
| Q. 1,2-Dichloropropane | QQ. 1,1-Dichloropropene | QQQ. cis-1,2-Dichloroethene | QQQQ. Methyl acetate | Q1. 2,2-Dimethylpentane |
| R. cis-1,3-Dichloropropene | RR. Dibromomethane | RRR. m,p-Xylenes | RRRR. Ethyl acetate | R1. 2,2,3-Trimethylbutane |
| S. Trichloroethene | SS. 1,3-Dichloropropane | SSS. o-Xylene | SSSS. Cyclohexane | S1. 2,2,4-Trimethylpentane |
| T. Dibromochloromethane | TT. 1,2-Dibromoethane | TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane | TTTT. Methylcyclohexane | T1. 2-Methylhexane |
| U. 1,1,2-Trichloroethane | UU. 1,1,1,2-Tetrachloroethane | UUU. 1,2-Dichlorotetrafluoroethane | UUUU. Allyl chloride | U1. Nonanal |
| V. Benzene | VV. Isopropylbenzene | VVV. 4-Ethyltoluene | VVVV. Methyl methacrylate | V1. 2-Methylnaphthalene |
| W. trans-1,3-Dichloropropene | WW. Bromobenzene | WWW. Ethanol | WWWW. Ethyl methacrylate | W1. Methanol |
| X. Bromoform | XX. 1,2,3-Trichloropropane | XXX. Di-isopropyl ether | XXXX. cis-1,4-Dichloro-2-butene | X1. 1,2,3-Trimethylbenzene |
| Y. 4-Methyl-2-pentanone | YY. n-Propylbenzene | YYY. tert-Butanol | YYYY. trans-1,4-Dichloro-2-butene | Y1. 2-Propanol |
| Z. 2-Hexanone | ZZ. 2-Chlorotoluene | ZZZ. tert-Butyl alcohol | ZZZZ. Pentachloroethane | Z1. |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 13, 2020

Parameters: Semivolatiles

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018201

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-5 | 2018201-02 | Water | 06/24/20 |
| MW-10 | 2018201-03 | Water | 06/24/20 |

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:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) SW 846 Method 8270C

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered 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

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs) with the following exceptions:

| Date | Compound | %RSD | Associated Samples | Flag | A or P |
|----------|-----------------|----------|----------------------------|----------------------|--------|
| 06/26/20 | 2-Naphthylamine | 67.48481 | All samples in SDG 2018201 | UJ (all non-detects) | A |

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 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|------------------------|------------------------------|--------------|----------------------------|--|--------|
| 06/26/20 (25JUN022) | Benzidine 2-Naphthylamine | 23.1 69.4 | All samples in SDG 2018201 | UJ (all non-detects) UJ (all non-detects) | A |
| 06/26/20 (25JUN024) | Hexachlorophene | 38.7 | All samples in SDG 2018201 | UJ (all non-detects) | A |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|---------------------------|--------------------------------|----------------------|-------------------------------|----------------------|--------|
| 06/27/20 (26JUN003) | Benzidine | 28.3 | All samples in SDG 2018201 | UJ (all non-detects) | A |
| | 2-Naphthylamine | 82.6 | | UJ (all non-detects) | |
| | 2-Acetylaminofluorene | 24.4 | | UJ (all non-detects) | |
| | Aramite | 21.4 | | UJ (all non-detects) | |
| | cis-Chlordane | 25.7 | | UJ (all non-detects) | |
| | trans-Chlordane | 28.7 | | UJ (all non-detects) | |
| | trans-Diallate | 24.3 | | UJ (all non-detects) | |
| | Diallate | 22.6 | | UJ (all non-detects) | |
| | 7,12-Dimethylbenz(a)anthracene | 27.8 | | UJ (all non-detects) | |
| | 3,3'-Dimethylbenzidine | 27.5 | | UJ (all non-detects) | |
| | Dinoseb | 29.1 | | UJ (all non-detects) | |
| | 3-Methylcholanthrene | 28.1 | | UJ (all non-detects) | |
| | 1-Naphthylamine | 36.7 | | UJ (all non-detects) | |
| | 4-Nitroquinoline-1-oxide | 35.6 | | UJ (all non-detects) | |
| | Pentachlorobenzene | 21.2 | | UJ (all non-detects) | |
| | Pronamide | 25.3 | | UJ (all non-detects) | |
| 2,3,4,6-Tetrachlorophenol | 28.7 | UJ (all non-detects) | | | |
| 1,3,5-Trinitrobenzene | 30.4 | UJ (all non-detects) | | | |
| 06/27/20 (26JUN005) | Hexachlorophene | 52.8 | All samples in SDG 2018201 | UJ (all non-detects) | A |

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Affected Compound | Flag | A or P |
|--------|--------------------|------------------------|--|------|--------|
| MW-5 | Phenanthrene-d10 | 875965 (215660-862638) | N-Nitrosodiphenylamine 4-Bromophenyl-phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene 4,6-Dinitro-2-methylphenol alpha-BHC beta-BHC gamma-BHC (Lindane) delta-BHC Carbazole Heptachlor Aldrin Heptachlor Epoxide Benzidine Phenacetin trans-Diallate Dimethoate Pentachloronitrobenzene 4-Aminobiphenyl Pronamide Dinoseb Disulfoton Methyl Parathion 4-Nitroquinoline-n-oxide Ethyl Parathion Methapyrilene Isodrin Kepone Famphur | NA | - |

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 initial calibration %RSD, ICV %D, and continuing calibration %D, data were qualified as estimated in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Semivolatiles - Data Qualification Summary - SDG 2018201**

| Sample | Compound | Flag | A or P | Reason |
|---------------|--|--|--------|---------------------------------------|
| MW-5 MW-10 | 2-Naphthylamine | UJ (all non-detects) | A | Initial calibration (%RSD) |
| MW-5 MW-10 | Benzidine 2-Naphthylamine Hexachlorophene | UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) | A | Initial calibration verification (%D) |
| MW-5 MW-10 | Benzidine 2-Naphthylamine 2-Acetylaminofluorene Aramite cis-Chlordane trans-Chlordane trans-Diallate Diallate 7,12-Dimethylbenz(a)anthracene 3,3'-Dimethylbenzidine Dinoseb 3-Methylcholanthrene 1-Naphthylamine 4-Nitroquinoline-1-oxide Pentachlorobenzene Pronamide 2,3,4,6-Tetrachlorophenol 1,3,5-Trinitrobenzene Hexachlorophene | UJ (all non-detects) | A | Continuing calibration (%D) |

**NASA JPL, 2Q2020
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 2018201**

No Sample Data Qualified in this SDG

LDC #: 48752D2a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2018201

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/2/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-------|---|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | MW/MW | RSD < 30/15/70, Y ² CV < 20% |
| IV. | Continuing calibration | MW | CV < 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | N | |
| XI. | Internal standards | MW | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-5 | 2018201-02 | Water | 06/24/20 |
| 2 | MW-10 | 2018201-03 | Water | 06/24/20 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

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|--|--|--|--|--|--|
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VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

| | | | | |
|---------------------------------|---------------------------------|----------------------------------|---|--|
| A. Phenol | CC. Dimethylphthalate | EEE. Bis(2-ethylhexyl)phthalate | GGGG. C30-Hopane | I1. Methyl methanesulfonate |
| B. Bis (2-chloroethyl) ether | DD. Acenaphthylene | FFF. Di-n-octylphthalate | HHHH. 1-Methylphenanthrene | J1. Ethyl methanesulfonate |
| C. 2-Chlorophenol | EE. 2,6-Dinitrotoluene | GGG. Benzo(b)fluoranthene | IIII. 1,4-Dioxane | K1. o,o',o"-Triethylphosphorothioate |
| D. 1,3-Dichlorobenzene | FF. 3-Nitroaniline | HHH. Benzo(k)fluoranthene | JJJJ. Acetophenone | L1. n-Phenylene diamine |
| E. 1,4-Dichlorobenzene | GG. Acenaphthene | III. Benzo(a)pyrene | KKKK. Atrazine | M1. 1,4-Naphthoquinone |
| F. 1,2-Dichlorobenzene | HH. 2,4-Dinitrophenol | JJJ. Indeno(1,2,3-cd)pyrene | LLLL. Benzaldehyde | N1. N-Nitro-o-toluidine |
| G. 2-Methylphenol | II. 4-Nitrophenol | KKK. Dibenz(a,h)anthracene | MMMM. Caprolactam | O1. 1,3,5-Trinitrobenzene |
| H. 2,2'-Oxybis(1-chloropropane) | JJ. Dibenzofuran | LLL. Benzo(g,h,i)perylene | NNNN. 2,6-Dichlorophenol | P1. Pentachlorobenzene |
| I. 4-Methylphenol | KK. 2,4-Dinitrotoluene | MMM. Bis(2-Chloroisopropyl)ether | OOOO. 1,2-Diphenylhydrazine | Q1. 4-Aminobiphenyl |
| J. N-Nitroso-di-n-propylamine | LL. Diethylphthalate | NNN. Aniline | PPPP. 3-Methylphenol | R1. 2-Naphthylamine |
| K. Hexachloroethane | MM. 4-Chlorophenyl-phenyl ether | OOO. N-Nitrosodimethylamine | QQQQ. 3&4-Methylphenol | S1. Triphenylene |
| L. Nitrobenzene | NN. Fluorene | PPP. Benzoic Acid | RRRR. 4-Dimethyldibenzothiophene (4MDT) | T1. Octachlorostyrene |
| M. Isophorone | OO. 4-Nitroaniline | QQQ. Benzyl alcohol | SSSS. 2/3-Dimethyldibenzothiophene (4MDT) | U1. Famphur |
| N. 2-Nitrophenol | PP. 4,6-Dinitro-2-methylphenol | RRR. Pyridine | TTTT. 1-Methyldibenzothiophene (1MDT) | V1. 1,4-phenylenediamine |
| O. 2,4-Dimethylphenol | QQ. N-Nitrosodiphenylamine | SSS. Benzidine | UUUU. 2,3,4,6-Tetrachlorophenol | W1. Methapyrilene |
| P. Bis(2-chloroethoxy)methane | RR. 4-Bromophenyl-phenylether | TTT. 1-Methylnaphthalene | VVVV. 1,2,4,5-Tetrachlorobenzene | X1. Pentachloroethane |
| Q. 2,4-Dichlorophenol | SS. Hexachlorobenzene | UUU. Benzo(b)thiophene | WWWW. 2-Picoline | Y1. 3,3'-Dimethylbenzidine |
| R. 1,2,4-Trichlorobenzene | TT. Pentachlorophenol | VVV. Benzonaphthothiophene | XXXX. 3-Methylcholanthrene | Z1. o-Toluidine |
| S. Naphthalene | UU. Phenanthrene | WWW. Benzo(e)pyrene | YYYY. a,a-Dimethylphenethylamine | A2. 1-Naphthylamine |
| T. 4-Chloroaniline | VV. Anthracene | XXX. 2,6-Dimethylnaphthalene | ZZZZ. Hexachloropropene | B2. 4-Aminobiphenyl |
| U. Hexachlorobutadiene | WW. Carbazole | YYY. 2,3,5-Trimethylnaphthalene | A1. N-Nitrosodiethylamine | C2. 4-Nitroquinoline-1-oxide |
| V. 4-Chloro-3-methylphenol | XX. Di-n-butylphthalate | ZZZ. Perylene | B1. N-Nitrosodi-n-butylamine | D2. Hexachloropene |
| W. 2-Methylnaphthalene | YY. Fluoranthene | AAAA. Dibenzothiophene | C1. N-Nitrosomethylethylamine | E2. Bis (2-chloro-1-methylethyl) ether |
| X. Hexachlorocyclopentadiene | ZZ. Pyrene | BBBB. Benzo(a)fluoranthene | D1. N-Nitrosomorpholine | F2. Bifenthrin |
| Y. 2,4,6-Trichlorophenol | AAA. Butylbenzylphthalate | CCCC. Benzo(b)fluorene | E1. N-Nitrosopyrrolidine | G2. Cyfluthrin |
| Z. 2,4,5-Trichlorophenol | BBB. 3,3'-Dichlorobenzidine | DDDD. cis/trans-Decalin | F1. Phenacetin | H2. Cypermethrin |
| AA. 2-Chloronaphthalene | CCC. Benzo(a)anthracene | EEEE. 1,1'-Biphenyl | G1. 2-Acetylaminofluorene | I2. Permethrin (cis/trans) |
| BB. 2-Nitroaniline | DDD. Chrysene | FFFF. Retene | H1. Pronamide | J2. 5-Nitro-o-toluidine |

Semi-Volatile Internal Standards

| 1,4-Dichlorobenzene-d4 (DCB) | Naphthalene-d8 (NPT) | Acenaphthene-d10 (ANT) |
|--|---|---|
| Phenol Bis(2-chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol Bis(2-chloroisopropyl)ether 3+4-Methylphenol N-Nitroso-d-n-propylamine Hexachoroethane N-Nitrosodimethylamine | Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methynaphthalene 1,2,4-Trichlorobenzene Benzoic acid | 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether Fluorene 4-Nitroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol |
| Phenanthrene-d10 (PHN) | Chrysene-d12 (CRY) | Perylene-d12 (PRY) |
| N-Nitrosodiphenylamine 4-Bromophenyl-phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene 4,6-Dinitro-2-methylphenol alpha-BHC beta-BHC gamma-BHC (Lindane) delta-BHC Carbazole Heptachlor Aldrin Heptachlor Epoxide Benzidine Phenacetin trans-Diallate Dimethoate Pentachloronitrobenzene 4-Aminobiphenyl Pronamide Dinoseb Disulfoton Methyl Parathion 4-Nitroquinoline-n-oxide Ethyl Parathion Methapyrilene Isodrin Kepone Famphur | Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate | Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene 3-Methylcholanthrene |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 13, 2020

Parameters: 1,4-Dioxane

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018201

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-13 | 2018201-04 | Water | 06/24/20 |

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270C

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered not detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

Where average calibration factors were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 2Q2020
1,4-Dioxane - Data Qualification Summary - SDG 2018201

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 2018201

No Sample Data Qualified in this SDG

LDC #: 48752D2c

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2018201

Level III

Laboratory: BC Laboratories, Inc.

Date: 6/27

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS 1,4-Dioxane (EPA SW846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|-------------------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A/A | RSD < 15% Y ² / CV < 20% |
| IV. | Continuing calibration | A | CCV < 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | D | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A | LC |
| X. | Field duplicates | N | |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|-----------|------------|--------|----------|
| 1 | MW-13 | 2018201-04 | Water | 06/24/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Metals

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018201

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-5 | 2018201-02 | Water | 06/24/20 |
| MW-10 | 2018201-03 | Water | 06/24/20 |
| MW-13 | 2018201-04 | Water | 06/24/20 |
| MW-13MS | 2018201-04MS | Water | 06/24/20 |
| MW-13MSD | 2018201-04MSD | Water | 06/24/20 |
| MW-13DUP | 2018201-04DUP | Water | 06/24/20 |

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the methods.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|----------|-----------------------|----------------------------|
| ICB/CCB | Chromium | 0.682 ug/L | All samples in SDG 2018201 |
| PB (prep blank) | Calcium | 0.020933 mg/L | MW-5 MW-10 |
| PB (prep blank) | Sodium | 0.052169 mg/L | MW-13 |
| ICB/CCB | Sodium | 0.1016 mg/L | MW-13 |

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|--------|----------|------------------------|------------------------------|
| MW-5 | Chromium | 1.5 ug/L | 1.5U ug/L |

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-13MS/MSD, no data were qualified for calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

Raw data were not reviewed for Level III validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level III validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2018201**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2018201**

| Sample | Analyte | Modified Final Concentration | A or P |
|---------------|----------------|---|---------------|
| MW-5 | Chromium | 1.5U ug/L | A |

LDC #: 48752D4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

SDG #: 2018201

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 200.7/200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|---------------|
| I. | Sample receipt/Technical holding times | A/A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | N | |
| VII. | Matrix Spike/Matrix Spike Duplicates | A | (4,5):Ca > 4X |
| VIII. | Duplicate sample analysis | A | 6 |
| 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-5 | 2018201-02 | Water | 06/24/20 |
| 2 | MW-10 | 2018201-03 | Water | 06/24/20 |
| 3 | MW-13 | 2018201-04 | Water | 06/24/20 |
| 4 | MW-13MS | 2018201-04MS | Water | 06/24/20 |
| 5 | MW-13MSD | 2018201-04MSD | Water | 06/24/20 |
| 6 | MW-13DUP | 2018201-04DUP | Water | 06/24/20 |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes: _____

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted:

Associated Samples: all

| | | | | Sample Identification | | | | | | | | |
|---------|------------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| Analyte | PB (units) | Maximum ICB/CCB (ug/L) | Action Level | | | | | | | | | |
| | | | | 1 | | | | | | | | |
| Cr | | 0.682 | 3.41 | 1.5 | | | | | | | | |
| | | | | | | | | | | | | |

Sample Concentration, unless otherwise noted:

Associated Samples: 1,2

| | | | | Sample Identification | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | |
| Ca | 0.020933 | | 0.104665 | | | | | | | | | |
| | | | | | | | | | | | | |

Sample Concentration, unless otherwise noted:

Associated Samples: 3

| | | | | Sample Identification | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | |
| Na | 0.052169 | | 0.260845 | | | | | | | | | |
| Na | | 0.1016 | 0.508 | | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 19, 2020

Parameters: Wet Chemistry

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018201

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-5 | 2018201-02 | Water | 06/24/20 |
| MW-10 | 2018201-03 | Water | 06/24/20 |
| MW-13 | 2018201-04 | Water | 06/24/20 |
| MW-5MS | 2018201-02MS | Water | 06/24/20 |
| MW-5MSD | 2018201-02MSD | Water | 06/24/20 |
| MW-5DUP | 2018201-02DUP | Water | 06/24/20 |
| MW-13DUP | 2018201-04DUP | Water | 06/24/20 |

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

Chloride, Nitrate as Nitrogen, and Sulfate by Environmental Protection Agency (EPA) Method 300.0

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Orthophosphate as Phosphorus by EPA Method 365.1

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|--------|---------|--|---|-----------------|--------|
| MW-5 | pH | 50.650 hours | 48 hours | J (all detects) | P |

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------------------------------|-----------------------------|----------------------------|
| PB (prep blank) | Chloride Hexavalent chromium | 0.161 mg/L 0.000035 mg/L | All samples in SDG 2018201 |
| ICB/CCB | Chloride Sulfate | 0.193 mg/L 0.395 mg/L | All samples in SDG 2018201 |
| ICB/CCB | Hexavalent chromium | 0.000043 mg/L | MW-5 |
| ICB/CCB | Hexavalent chromium | 0.000038 mg/L | MW-10 MW-13 |

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|--------|---------------------|------------------------|------------------------------|
| MW-5 | Hexavalent chromium | 0.00021 mg/L | 0.00021U mg/L |

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to technical holding time, data were qualified as estimated in one sample.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2018201**

| Sample | Analyte | Flag | A or P | Reason |
|--------|---------|-----------------|--------|-------------------------|
| MW-5 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2018201**

| Sample | Analyte | Modified Final Concentration | A or P |
|--------|---------------------|------------------------------|--------|
| MW-5 | Hexavalent chromium | 0.00021U mg/L | A |

LDC #: 48752D6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

SDG #: 2018201

Level III

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: 

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A/SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | N | |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | (4,5), From SDG # 2018328 (MW-6MS/MSD, MW-8MS/MSD) |
| VII. | Duplicate sample analysis | A | 6,7, From SDG # 2018328 (MW-6DUP, MW-8DUP) |
| 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-5 | 2018201-02 | Water | 06/24/20 |
| 2 | MW-10 | 2018201-03 | Water | 06/24/20 |
| 3 | MW-13 | 2018201-04 | Water | 06/24/20 |
| 4 | MW-5MS | 2018201-02MS | Water | 06/24/20 |
| 5 | MW-5MSD | 2018201-02MSD | Water | 06/24/20 |
| 6 | MW-5DUP | 2018201-02DUP | Water | 06/24/20 |
| 7 | MW-13DUP | 2018201-04DUP | Water | 06/24/20 |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |

Notes: _____

Holding Time

METHOD: Inorganics

All samples were properly preserved and within the required holding time with the following exceptions:

| | | Method: EPA 150.1 Analyte: pH Holding Time: 48hrs | | | |
|-----------|----------------|---|--|-----------|--------|
| Sample ID | Sampling Date | Analysis Date | Total Time from Collection to Analysis (hours) | Qualifier | Det/ND |
| 1 | 6/24/2020 9:10 | 6/26/2020 11:49 | 50.650 | J/UJ/P | det |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Preservation

| Sample ID | Preservation | Preservation Requirement (pH) | Qualifier | Det/ND |
|-----------|--------------|-------------------------------|-----------|--------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

METHOD: Inorganics

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: all

| | | | | Sample Identification | | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | | |
| Cl | 0.161 | | 0.805 | | | | | | | | | | |
| Cl | | 0.193 | 0.965 | | | | | | | | | | |
| SO4 | | 0.395 | 1.975 | | | | | | | | | | |
| Cr6+ | 0.000035 | | 0.000175 | | | | | | | | | | |

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 1

| | | | | Sample Identification | | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | | |
| | | | | 1 | | | | | | | | | |
| Cr6+ | | 0.000043 | 0.000215 | 0.00021 | | | | | | | | | |
| | | | | | | | | | | | | | |

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 2,3

| | | | | Sample Identification | | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | | |
| Cr6+ | | 0.000038 | 0.00019 | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

NASA JPL, 2Q2020 - LDC# 48752D

SDG: 2018201

| Analytical Method | | EPA-150.1 | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|----------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | pH | 6/26/2020 | 7.29 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-13 | 2018201-04 | pH | 6/26/2020 | 7.42 | Y | y | v | | 0.05 | 0.05 | pH Units |
| MW-5 | 2018201-02 | pH | 6/26/2020 | 7.02 | Y | y | v | J | 0.05 | 0.05 | pH Units |
| Analytical Method | | EPA-160.1 | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Total Dissolved Solids @ 180 C | 6/26/2020 | 220 | Y | y | v | | 20 | 10 | mg/L |
| MW-13 | 2018201-04 | Total Dissolved Solids @ 180 C | 6/26/2020 | 370 | Y | y | v | | 20 | 10 | mg/L |
| MW-5 | 2018201-02 | Total Dissolved Solids @ 180 C | 6/26/2020 | 190 | Y | y | v | | 20 | 10 | mg/L |
| Analytical Method | | EPA-200.7 | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Total Recoverable Magnesium | 6/29/2020 | 12 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-10 | 2018201-03 | Total Recoverable Sodium | 6/29/2020 | 19 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-10 | 2018201-03 | Total Recoverable Potassium | 6/29/2020 | 1.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-10 | 2018201-03 | Total Recoverable Iron | 6/29/2020 | 42 | Y | y | v j | | 50 | 30 | ug/L |
| MW-10 | 2018201-03 | Total Recoverable Calcium | 6/29/2020 | 36 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-13 | 2018201-04 | Total Recoverable Potassium | 6/29/2020 | 2.6 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-13 | 2018201-04 | Total Recoverable Iron | 6/29/2020 | 49 | Y | y | v j | | 50 | 30 | ug/L |
| MW-13 | 2018201-04 | Total Recoverable Calcium | 6/29/2020 | 53 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-13 | 2018201-04 | Total Recoverable Magnesium | 6/29/2020 | 18 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-13 | 2018201-04 | Total Recoverable Sodium | 6/29/2020 | 26 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-5 | 2018201-02 | Total Recoverable Sodium | 6/29/2020 | 9.6 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-5 | 2018201-02 | Total Recoverable Magnesium | 6/29/2020 | 11 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-5 | 2018201-02 | Total Recoverable Potassium | 6/29/2020 | 2 | Y | y | v | | 1.0 | 0.10 | mg/L |

SDG: 2018201

| Analytical Method | | EPA-200.7 | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Total Recoverable Iron | 6/29/2020 | 35 | Y | y | v j | | 50 | 30 | ug/L |
| MW-5 | 2018201-02 | Total Recoverable Calcium | 6/29/2020 | 34 | Y | y | v | | 0.10 | 0.014 | mg/L |

| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Total Recoverable Lead | 6/29/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-10 | 2018201-03 | Total Recoverable Arsenic | 6/29/2020 | 0.95 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-10 | 2018201-03 | Total Recoverable Chromium | 6/29/2020 | 7.4 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-13 | 2018201-04 | Total Recoverable Arsenic | 6/29/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-13 | 2018201-04 | Total Recoverable Chromium | 6/29/2020 | 8.3 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-13 | 2018201-04 | Total Recoverable Lead | 6/29/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-5 | 2018201-02 | Total Recoverable Arsenic | 6/29/2020 | 0.99 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-5 | 2018201-02 | Total Recoverable Chromium | 6/29/2020 | 1.5 | Y | y | v j | U | 3.0 | 0.50 | ug/L |
| MW-5 | 2018201-02 | Total Recoverable Lead | 6/29/2020 | 1 | Y | n | u | | 1.0 | 0.10 | 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 | 2018201-03 | Hexavalent Chromium | 6/25/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-13 | 2018201-04 | Hexavalent Chromium | 6/25/2020 | 0.0026 | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-5 | 2018201-02 | Hexavalent Chromium | 6/25/2020 | ##### | Y | y | v | U | 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-10 | 2018201-03 | Chloride | 6/25/2020 | 8.3 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-10 | 2018201-03 | Nitrate as N | 6/25/2020 | 0.86 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-10 | 2018201-03 | Sulfate | 6/25/2020 | 22 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-13 | 2018201-04 | Chloride | 6/25/2020 | 39 | Y | y | v | | 0.50 | 0.13 | mg/L |

SDG: 2018201

| 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 | 2018201-04 | Nitrate as N | 6/25/2020 | 5 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-13 | 2018201-04 | Sulfate | 6/25/2020 | 54 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-5 | 2018201-02 | Chloride | 6/25/2020 | 4.7 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-5 | 2018201-02 | Nitrate as N | 6/25/2020 | 1.8 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-5 | 2018201-02 | Sulfate | 6/25/2020 | 13 | Y | y | v | | 1.0 | 0.14 | 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-10 | 2018201-03 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-13 | 2018201-04 | Perchlorate | 7/2/2020 | 25 | Y | y | v | | 8.0 | 1.6 | ug/L |
| MW-5 | 2018201-02 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | 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-10 | 2018201-03 | Nitrite as N | 6/25/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-13 | 2018201-04 | Nitrite as N | 6/25/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-5 | 2018201-02 | Nitrite as N | 6/25/2020 | 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 | 2018201-04 | ortho-Phosphate as P | 6/26/2020 | 0.048 | 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-10 | 2018201-03 | 1,2,4-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-10 | 2018201-03 | 1,2,3-Trichloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-10 | 2018201-03 | Trichlorofluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

SDG: 2018201

| Analytical 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 | 2018201-03 | Trichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-10 | 2018201-03 | 1,1,2-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-10 | 2018201-03 | 1,1,1-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-10 | 2018201-03 | 1,2,4-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | Toluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | Methacrylonitrile | 6/25/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-10 | 2018201-03 | Tetrachloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-10 | 2018201-03 | 1,1,2,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | 1,1,1,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-10 | 2018201-03 | Methyl methacrylate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-10 | 2018201-03 | Styrene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-10 | 2018201-03 | n-Propylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-10 | 2018201-03 | Naphthalene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-10 | 2018201-03 | Methyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | 1,2,3-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-10 | 2018201-03 | Diethyl ether | 6/25/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-10 | 2018201-03 | Carbon disulfide | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-10 | 2018201-03 | t-Butyl alcohol | 6/25/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-10 | 2018201-03 | t-Amyl Methyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-10 | 2018201-03 | Allyl chloride | 6/25/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-10 | 2018201-03 | Methyl iodide | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-10 | 2018201-03 | Acrylonitrile | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-10 | 2018201-03 | Acetone | 6/25/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-10 | 2018201-03 | Methyl isobutyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-10 | 2018201-03 | 1,3,5-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |

SDG: 2018201

| Analytical 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 | 2018201-03 | Methyl ethyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-10 | 2018201-03 | 2,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-10 | 2018201-03 | Ethyl methacrylate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-10 | 2018201-03 | Methylene chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-10 | 2018201-03 | Ethyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-10 | 2018201-03 | Hexachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-10 | 2018201-03 | 2-Hexanone | 6/25/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-10 | 2018201-03 | trans-1,4-Dichloro-2-butene | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-10 | 2018201-03 | Vinyl chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-10 | 2018201-03 | Chloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-10 | 2018201-03 | cis-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | Bromoform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-10 | 2018201-03 | Bromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-10 | 2018201-03 | n-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | sec-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-10 | 2018201-03 | tert-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-10 | 2018201-03 | Carbon tetrachloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | Chlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | Bromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-10 | 2018201-03 | Chloroform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | Bromobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | 2-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | 4-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-10 | 2018201-03 | Dibromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-10 | 2018201-03 | 1,2-Dibromo-3-chloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | 1,2-Dibromoethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-10 | 2018201-03 | Dibromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-10 | 2018201-03 | 1,2-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-10 | 2018201-03 | 1,3-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-10 | 2018201-03 | Chloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | 1,1-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-10 | 2018201-03 | Isopropylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | Hexachlorobutadiene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Ethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | trans-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-10 | 2018201-03 | 1,1-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-10 | 2018201-03 | 1,1-Dichloropropanone | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 1,3-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-10 | 2018201-03 | 1,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | Bromodichloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-10 | 2018201-03 | cis-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-10 | 2018201-03 | p-Isopropyltoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-10 | 2018201-03 | 1,2-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | 1,1-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | Dichlorodifluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-10 | 2018201-03 | 1-Chlorobutane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Chloroacetonitrile | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | o-Xylene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-10 | 2018201-03 | p- & m-Xylenes | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-10 | 2018201-03 | Benzene | 6/25/2020 | 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-10 | 2018201-03 | trans-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-10 | 2018201-03 | Nitrobenzene | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Methyl acrylate | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Propionitrile | 6/25/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-10 | 2018201-03 | Tetrahydrofuran | 6/25/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-10 | 2018201-03 | 2-Nitropropane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Pentachloroethane | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-10 | 2018201-03 | 1,4-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | Vinyl chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-13 | 2018201-04 | Acetone | 6/25/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-13 | 2018201-04 | Acrylonitrile | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-13 | 2018201-04 | Allyl chloride | 6/25/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-13 | 2018201-04 | 1,3,5-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | t-Butyl alcohol | 6/25/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-13 | 2018201-04 | Trichlorofluoromethane | 6/25/2020 | 1.4 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | Carbon disulfide | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-13 | 2018201-04 | trans-1,4-Dichloro-2-butene | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-13 | 2018201-04 | t-Amyl Methyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-13 | 2018201-04 | 1,2,4-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-13 | 2018201-04 | Diethyl ether | 6/25/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-13 | 2018201-04 | 1,2,3-Trichloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-13 | 2018201-04 | Methacrylonitrile | 6/25/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-13 | 2018201-04 | Trichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-13 | 2018201-04 | Pentachloroethane | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-13 | 2018201-04 | 1,1,2-Trichloroethane | 6/25/2020 | 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-13 | 2018201-04 | 1,1,1-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-13 | 2018201-04 | 1,2,4-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | 1,2,3-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-13 | 2018201-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-13 | 2018201-04 | tert-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-13 | 2018201-04 | Methyl methacrylate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-13 | 2018201-04 | 1,2-Dibromoethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-13 | 2018201-04 | 1,2-Dibromo-3-chloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-13 | 2018201-04 | Dibromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-13 | 2018201-04 | 4-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-13 | 2018201-04 | 2-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | Chloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-13 | 2018201-04 | Chloroform | 6/25/2020 | 0.81 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | Chloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-13 | 2018201-04 | Hexachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-13 | 2018201-04 | Carbon tetrachloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-13 | 2018201-04 | Ethyl methacrylate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-13 | 2018201-04 | sec-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-13 | 2018201-04 | n-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | Bromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-13 | 2018201-04 | Methyl isobutyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-13 | 2018201-04 | Methyl ethyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-13 | 2018201-04 | Styrene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-13 | 2018201-04 | 2-Hexanone | 6/25/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-13 | 2018201-04 | Toluene | 6/25/2020 | 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-13 | 2018201-04 | Ethyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-13 | 2018201-04 | Chlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | Tetrahydrofuran | 6/25/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-13 | 2018201-04 | 1,1,2,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-13 | 2018201-04 | 1,3-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-13 | 2018201-04 | 1,2-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-13 | 2018201-04 | Dibromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-13 | 2018201-04 | Bromoform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-13 | 2018201-04 | Bromodichloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-13 | 2018201-04 | Bromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-13 | 2018201-04 | Methyl iodide | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-13 | 2018201-04 | Dichlorodifluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | Benzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-13 | 2018201-04 | 1,1-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | p- & m-Xylenes | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-13 | 2018201-04 | o-Xylene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-13 | 2018201-04 | Chloroacetonitrile | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-13 | 2018201-04 | 1-Chlorobutane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-13 | 2018201-04 | 1,1-Dichloropropanone | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-13 | 2018201-04 | Methyl acrylate | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-13 | 2018201-04 | Nitrobenzene | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-13 | 2018201-04 | 2-Nitropropane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-13 | 2018201-04 | Propionitrile | 6/25/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-13 | 2018201-04 | Bromobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | trans-1,3-Dichloropropene | 6/25/2020 | 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-13 | 2018201-04 | 1,1,1,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-13 | 2018201-04 | n-Propylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-13 | 2018201-04 | Naphthalene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-13 | 2018201-04 | Methyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | Methylene chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-13 | 2018201-04 | p-Isopropyltoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | Isopropylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | 1,4-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | Ethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | Tetrachloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-13 | 2018201-04 | cis-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-13 | 2018201-04 | 1,1-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-13 | 2018201-04 | 2,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-13 | 2018201-04 | 1,3-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-13 | 2018201-04 | 1,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-13 | 2018201-04 | trans-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-13 | 2018201-04 | cis-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-13 | 2018201-04 | 1,1-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-13 | 2018201-04 | 1,2-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-13 | 2018201-04 | Hexachlorobutadiene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 1,2,3-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-5 | 2018201-02 | n-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | Pentachloroethane | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-5 | 2018201-02 | cis-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | Dichlorodifluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | 1,1-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | 1,2-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | 1,1-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-5 | 2018201-02 | cis-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-5 | 2018201-02 | trans-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | 1,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | 1,3-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-5 | 2018201-02 | n-Propylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-5 | 2018201-02 | 1,1-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-5 | 2018201-02 | 1,2-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-5 | 2018201-02 | trans-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-5 | 2018201-02 | Ethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | Hexachlorobutadiene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Isopropylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | p-Isopropyltoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | Methylene chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-5 | 2018201-02 | Methyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | Bromoform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-5 | 2018201-02 | 2,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-5 | 2018201-02 | Chloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | Benzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-5 | 2018201-02 | Bromobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | Bromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-5 | 2018201-02 | Bromodichloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Bromomethane | 6/25/2020 | 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-5 | 2018201-02 | sec-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-5 | 2018201-02 | tert-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-5 | 2018201-02 | Methyl iodide | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-5 | 2018201-02 | 1,4-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | Chlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | 1,3-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-5 | 2018201-02 | Chloroform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | Chloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-5 | 2018201-02 | 2-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | 4-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-5 | 2018201-02 | Dibromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-5 | 2018201-02 | 1,2-Dibromo-3-chloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-5 | 2018201-02 | 1,2-Dibromoethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-5 | 2018201-02 | Dibromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-5 | 2018201-02 | Styrene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-5 | 2018201-02 | Carbon tetrachloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | 1,3,5-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | Naphthalene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-5 | 2018201-02 | Diethyl ether | 6/25/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-5 | 2018201-02 | trans-1,4-Dichloro-2-butene | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-5 | 2018201-02 | Carbon disulfide | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-5 | 2018201-02 | t-Butyl alcohol | 6/25/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-5 | 2018201-02 | t-Amyl Methyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-5 | 2018201-02 | Allyl chloride | 6/25/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-5 | 2018201-02 | Acrylonitrile | 6/25/2020 | 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-5 | 2018201-02 | Ethyl methacrylate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-5 | 2018201-02 | Vinyl chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-5 | 2018201-02 | Ethyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-5 | 2018201-02 | 1,2,4-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-5 | 2018201-02 | 1,2,3-Trichloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-5 | 2018201-02 | Trichlorofluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-5 | 2018201-02 | Trichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-5 | 2018201-02 | 1,1,2-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-5 | 2018201-02 | 1,1,1-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-5 | 2018201-02 | 1,2,4-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-5 | 2018201-02 | Acetone | 6/25/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-5 | 2018201-02 | p- & m-Xylenes | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-5 | 2018201-02 | 1,1,1,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-5 | 2018201-02 | 1,1,2,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | Tetrachloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-5 | 2018201-02 | Toluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-5 | 2018201-02 | 2-Nitropropane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Nitrobenzene | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Methyl acrylate | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 1,1-Dichloropropanone | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 1-Chlorobutane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | o-Xylene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-5 | 2018201-02 | Tetrahydrofuran | 6/25/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-5 | 2018201-02 | Propionitrile | 6/25/2020 | 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-5 | 2018201-02 | Methyl methacrylate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-5 | 2018201-02 | Methyl isobutyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-5 | 2018201-02 | Methyl ethyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-5 | 2018201-02 | Methacrylonitrile | 6/25/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-5 | 2018201-02 | 2-Hexanone | 6/25/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-5 | 2018201-02 | Hexachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-5 | 2018201-02 | Chloroacetonitrile | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | Methyl acrylate | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | Benzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-12-062420 | 2018201-01 | Pentachloroethane | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| TB-12-062420 | 2018201-01 | trans-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1,1,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-12-062420 | 2018201-01 | Styrene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-12-062420 | 2018201-01 | n-Propylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-12-062420 | 2018201-01 | Naphthalene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-12-062420 | 2018201-01 | Methyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Methylene chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-12-062420 | 2018201-01 | p-Isopropyltoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Isopropylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Nitrobenzene | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | Ethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | Toluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | cis-1,3-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1-Dichloropropene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-12-062420 | 2018201-01 | 2,2-Dichloropropane | 6/25/2020 | 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 |
| TB-12-062420 | 2018201-01 | 1,3-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2-Dichloropropane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | trans-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | 2-Nitropropane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | 1,1-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-12-062420 | 2018201-01 | Hexachlorobutadiene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2,4-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | Diethyl ether | 6/25/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| TB-12-062420 | 2018201-01 | trans-1,4-Dichloro-2-butene | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| TB-12-062420 | 2018201-01 | Carbon disulfide | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| TB-12-062420 | 2018201-01 | t-Butyl alcohol | 6/25/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-12-062420 | 2018201-01 | t-Amyl Methyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-12-062420 | 2018201-01 | Allyl chloride | 6/25/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-12-062420 | 2018201-01 | Acrylonitrile | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-12-062420 | 2018201-01 | Acetone | 6/25/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1,2,2-Tetrachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | 1,3,5-Trimethylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Tetrachloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2,3-Trichloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-12-062420 | 2018201-01 | Trichlorofluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Trichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1,2-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1,1-Trichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2,4-Trichlorobenzene | 6/25/2020 | 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-12-062420 | 2018201-01 | 1,2,3-Trichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | Vinyl chloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-12-062420 | 2018201-01 | Methyl methacrylate | 6/25/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-12-062420 | 2018201-01 | cis-1,2-Dichloroethene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-12-062420 | 2018201-01 | Bromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-12-062420 | 2018201-01 | Bromobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | Ethyl t-butyl ether | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-12-062420 | 2018201-01 | Hexachloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-12-062420 | 2018201-01 | 2-Hexanone | 6/25/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-12-062420 | 2018201-01 | Methacrylonitrile | 6/25/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-12-062420 | 2018201-01 | Methyl ethyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-12-062420 | 2018201-01 | Bromodichloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-12-062420 | 2018201-01 | Methyl isobutyl ketone | 6/25/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-12-062420 | 2018201-01 | Bromoform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-12-062420 | 2018201-01 | Propionitrile | 6/25/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-12-062420 | 2018201-01 | Tetrahydrofuran | 6/25/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-12-062420 | 2018201-01 | p- & m-Xylenes | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-12-062420 | 2018201-01 | o-Xylene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-12-062420 | 2018201-01 | Chloroacetonitrile | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | 1-Chlorobutane | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | 1,1-Dichloropropanone | 6/25/2020 | 0 | Y | y | v | | | | ug/L |
| TB-12-062420 | 2018201-01 | Ethyl methacrylate | 6/25/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-12-062420 | 2018201-01 | Methyl iodide | 6/25/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-12-062420 | 2018201-01 | 2-Chlorotoluene | 6/25/2020 | 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 |
| TB-12-062420 | 2018201-01 | Dichlorodifluoromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | 1,4-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | 1,3-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2-Dichlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-12-062420 | 2018201-01 | Dibromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2-Dibromoethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-12-062420 | 2018201-01 | 1,2-Dibromo-3-chloropropane | 6/25/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-12-062420 | 2018201-01 | Dibromochloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-12-062420 | 2018201-01 | 4-Chlorotoluene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-12-062420 | 2018201-01 | 1,1-Dichloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | Chloromethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-12-062420 | 2018201-01 | Chloroform | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Chloroethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | Chlorobenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-12-062420 | 2018201-01 | Carbon tetrachloride | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-12-062420 | 2018201-01 | tert-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-12-062420 | 2018201-01 | sec-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-12-062420 | 2018201-01 | n-Butylbenzene | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-12-062420 | 2018201-01 | Bromomethane | 6/25/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |

| Analytical Method | | EPA-8270C | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Benzidine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 1.6 | ug/L |
| MW-10 | 2018201-03 | Hexachlorophene | 6/27/2020 | 200 | Y | n | u | UJ | 200 | 20 | ug/L |
| MW-10 | 2018201-03 | Diethyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | 2-Naphthylamine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 1.3 | ug/L |
| MW-10 | 2018201-03 | Pronamide | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.22 | ug/L |
| MW-10 | 2018201-03 | 2,3,4,6-Tetrachlorophenol | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.73 | ug/L |
| MW-10 | 2018201-03 | 2,3,4,5-Tetrachlorophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-10 | 2018201-03 | 1,2,4,5-Tetrachlorobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Sulfotep | 6/27/2020 | 10 | Y | n | u | | 10 | 0.23 | ug/L |
| MW-10 | 2018201-03 | Safrole | 6/27/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-10 | 2018201-03 | Pyridine | 6/27/2020 | 10 | Y | n | u | | 10 | 1.6 | ug/L |
| MW-10 | 2018201-03 | Ethyl methacrylate | 6/27/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-10 | 2018201-03 | Propyleneglycol monomethyl ether acetate | 6/27/2020 | 10 | Y | n | u | | 10 | 3.7 | ug/L |
| MW-10 | 2018201-03 | Toxaphene | 6/27/2020 | 100 | Y | n | u | | 100 | 50 | ug/L |
| MW-10 | 2018201-03 | Prometryn | 6/27/2020 | 10 | Y | n | u | | 10 | 1.7 | ug/L |
| MW-10 | 2018201-03 | Total PCB's (Summation) | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | PCB-1232 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | PCB-1016 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | PCB-1242 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | PCB-1254 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | PCB-1260 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | Prowl | 6/27/2020 | 10 | Y | n | u | | 10 | 0.83 | ug/L |
| MW-10 | 2018201-03 | Anilazine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Carbofuran | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Carbaryl | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Captan | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Captafol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Bromoxynil | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | p-Benzoquinone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Barban | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Thionazin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.38 | ug/L |
| MW-10 | 2018201-03 | o-Anisidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 2-Toluidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.41 | ug/L |
| MW-10 | 2018201-03 | 3-Amino-9-ethylcarbazole | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 2-Aminoanthraquinone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 1-Acetyl-2-thiourea | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Tris(hydroxymethyl)nitromethane | 6/27/2020 | 50 | Y | n | u | | 50 | 5.0 | ug/L |
| MW-10 | 2018201-03 | 1,3,5-Trinitrobenzene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 1.4 | ug/L |
| MW-10 | 2018201-03 | o,o,o-Triethylphosphorothioate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-10 | 2018201-03 | PCB-1248 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | Azinphos methyl | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | trans-Isosafrole | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.29 | ug/L |
| MW-10 | 2018201-03 | PCB-1221 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | 1-Methylnaphthalene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-10 | 2018201-03 | Methyl methanesulfonate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-10 | 2018201-03 | Methyl methacrylate | 6/27/2020 | 40 | Y | n | u | | 40 | 3.8 | ug/L |
| MW-10 | 2018201-03 | 3-Methylcholanthrene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.31 | ug/L |
| MW-10 | 2018201-03 | Methoxychlor | 6/27/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Methapyrilene | 6/27/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-10 | 2018201-03 | N-Methyl-2-pyrrolidinone | 6/27/2020 | 10 | Y | n | u | | 10 | 2.5 | ug/L |
| MW-10 | 2018201-03 | Isosafrole | 6/27/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-10 | 2018201-03 | 1,4-Naphthoquinone | 6/27/2020 | 20 | Y | n | u | | 20 | 0.87 | ug/L |
| MW-10 | 2018201-03 | cis-Isosafrole | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.44 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Isodrin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.43 | ug/L |
| MW-10 | 2018201-03 | Hexachloropropene | 6/27/2020 | 20 | Y | n | u | | 20 | 0.23 | ug/L |
| MW-10 | 2018201-03 | 3,3-Dichlorobenzidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.53 | ug/L |
| MW-10 | 2018201-03 | Famphur | 6/27/2020 | 20 | Y | n | u | | 20 | 4.1 | ug/L |
| MW-10 | 2018201-03 | Acenaphthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Ethyl methanesulfonate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-10 | 2018201-03 | Kepone | 6/27/2020 | 20 | Y | n | u | | 20 | 2.2 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosopiperidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.47 | ug/L |
| MW-10 | 2018201-03 | 5-Chloro-2-methylaniline | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | PCB-1262 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | 2-Picoline | 6/27/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-10 | 2018201-03 | Phorate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.35 | ug/L |
| MW-10 | 2018201-03 | 1,4-Phenylenediamine | 6/27/2020 | 20 | Y | n | u | | 20 | 1.1 | ug/L |
| MW-10 | 2018201-03 | Phenacetin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.75 | ug/L |
| MW-10 | 2018201-03 | Pentachloronitrobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.42 | ug/L |
| MW-10 | 2018201-03 | Methyl parathion | 6/27/2020 | 10 | Y | n | u | | 10 | 0.71 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosopyrrolidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.39 | ug/L |
| MW-10 | 2018201-03 | PCB-1268 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosomorpholine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.63 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosomethylethylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosodiethylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.55 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosodibutylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-10 | 2018201-03 | 4-Nitroquinoline 1-oxide | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 0.95 | ug/L |
| MW-10 | 2018201-03 | 5-Nitro-o-toluidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.85 | ug/L |
| MW-10 | 2018201-03 | 1-Naphthylamine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 0.30 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Pentachlorobenzene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Naled | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Maleic Anhydride | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Phenobarbital | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 4,4'-Oxydianiline | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Octamethylpyrophosphoramidate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Nitrophen | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 4-Nitrobiphenyl | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 5-Nitro-o-anisidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Phosmet | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Nicotine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Phosphamidon | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Monocrotophos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Mirex | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Mexacarbate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Mevinphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 4,4'-Methylenebis[N,N-dimethylaniline] | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 4,4'-Methylenebis(2-chloroaniline) | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Carbophenothion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 5-Nitroacenaphthene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Tetrachlorvinphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Pentachloroethane | 6/27/2020 | 20 | Y | n | u | | 20 | 0.31 | ug/L |
| MW-10 | 2018201-03 | Tri-p-tolyl phosphate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Tris(2,3-dibromopropyl) phosphate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Trimethyl phosphate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | 2,4,5-Trimethylaniline | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Trifluralin | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Toluene 2,4-diisocyanate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Phosalone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | TEPP | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Malathion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Terbufos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Sulfallate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Strychnine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Resorcinol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Propylthiouracil | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Piperonyl sulfoxide | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Phthalic anhydride | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Thiophenol (Benzenethiol) | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 2-Cyclohexyl-4,6-dinitrophenol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Mestranol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dichlorvos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dichlone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 1,2-Dibromo-3-chloropropane | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dibenzo[a,e]pyrene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dibenz[a,j]acridine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 2,4-Diaminotoluene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Diethylstilbestrol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Demeton-O | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Diethyl sulfate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Crotoxyphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | p-Cresidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Coumaphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 4-Chloro-1,3-phenylenediamine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 4-Chloro-1,2-phenylenediamine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 3-(Chloromethyl) pyridine hydrochloride | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Ethyl Parathion | 6/27/2020 | 10 | Y | n | u | | 10 | 0.53 | ug/L |
| MW-10 | 2018201-03 | Demeton-S | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Endrin ketone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Leptophos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Hydroquinone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Hexamethylphosphoramide | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Fluchloralin | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Fenthion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Fensulfothion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Ethyl carbamate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dicrotophos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | EPN | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Chlorfenvinphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 5,5-Diphenylhydantoin | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dioxathion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Dinocap | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 1,4-Dinitrobenzene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 1,2-Dinitrobenzene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | 3,3'-Dimethoxybenzidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Dihydrosafrole | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Ethion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-10 | 2018201-03 | Benzo[k]fluoranthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-10 | 2018201-03 | Dinoseb | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.91 | ug/L |
| MW-10 | 2018201-03 | bis(2-Chloroethyl) ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-10 | 2018201-03 | Disulfoton | 6/27/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-10 | 2018201-03 | bis(2-Chloroethoxy)methane | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | gamma-BHC (Lindane) | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | delta-BHC | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | beta-BHC | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | alpha-BHC | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Benzyl butyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Benzyl alcohol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Benzoic acid | 6/27/2020 | 10 | Y | n | u | | 10 | 0.52 | ug/L |
| MW-10 | 2018201-03 | Naphthalene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Benzo[a]pyrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Isophorone | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Benzo[b]fluoranthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.24 | ug/L |
| MW-10 | 2018201-03 | Benzo[a]anthracene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-10 | 2018201-03 | Di-n-octyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-10 | 2018201-03 | Anthracene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Aniline | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.28 | ug/L |
| MW-10 | 2018201-03 | Aldrin | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-10 | 2018201-03 | 2,6-Dinitrotoluene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 1,4-Dichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.27 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | 2,4-Dinitrotoluene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-10 | 2018201-03 | Di-n-butyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 1,2-Diphenylhydrazine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Benzo[g,h,i]perylene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-10 | 2018201-03 | 1,2-Dichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Endosulfan I | 6/27/2020 | 10 | Y | n | u | | 10 | 0.31 | ug/L |
| MW-10 | 2018201-03 | Endosulfan II | 6/27/2020 | 10 | Y | n | u | | 10 | 0.30 | ug/L |
| MW-10 | 2018201-03 | Endosulfan sulfate | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.23 | ug/L |
| MW-10 | 2018201-03 | Endrin | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.38 | ug/L |
| MW-10 | 2018201-03 | Endrin aldehyde | 6/27/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-10 | 2018201-03 | Fluoranthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.28 | ug/L |
| MW-10 | 2018201-03 | Fluorene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Heptachlor | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Heptachlor epoxide | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-10 | 2018201-03 | Hexachlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.25 | ug/L |
| MW-10 | 2018201-03 | Hexachlorobutadiene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | bis(2-Chloroisopropyl)ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Hexachloroethane | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | bis(2-Ethylhexyl)phthalate | 6/27/2020 | 4 | Y | n | u | | 4.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Dibenzofuran | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Dibenzo[a,h]anthracene | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.34 | ug/L |
| MW-10 | 2018201-03 | 4,4'-DDT | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-10 | 2018201-03 | 4,4'-DDE | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.24 | ug/L |
| MW-10 | 2018201-03 | 4,4'-DDD | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-10 | 2018201-03 | Chrysene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | 4-Chlorophenyl phenyl ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 2-Chloronaphthalene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 4-Chloroaniline | 6/27/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-10 | 2018201-03 | Indeno[1,2,3-cd]pyrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.29 | ug/L |
| MW-10 | 2018201-03 | 4-Bromophenyl phenyl ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Dimethyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Hexachlorocyclopentadiene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-10 | 2018201-03 | cis-Diallate | 6/27/2020 | 5 | Y | n | u | | 5.0 | 2.4 | ug/L |
| MW-10 | 2018201-03 | 2-Methylnaphthalene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Acrolein, dimethyl acetal | 6/27/2020 | 40 | Y | n | u | | 40 | 6.1 | ug/L |
| MW-10 | 2018201-03 | 4-Aminobiphenyl | 6/27/2020 | 20 | Y | n | u | | 20 | 0.35 | ug/L |
| MW-10 | 2018201-03 | 2-Acetylaminofluorene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.78 | ug/L |
| MW-10 | 2018201-03 | Benzaldehyde | 6/27/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-10 | 2018201-03 | Benefin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.88 | ug/L |
| MW-10 | 2018201-03 | 1,1-Biphenyl | 6/27/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-10 | 2018201-03 | Caprolactam | 6/27/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-10 | 2018201-03 | Carbazole | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Aramite | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.35 | ug/L |
| MW-10 | 2018201-03 | cis-Chlordane | 6/27/2020 | 5 | Y | n | u | UJ | 5.0 | 0.59 | ug/L |
| MW-10 | 2018201-03 | Acetophenone | 6/27/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-10 | 2018201-03 | 1-Chloronaphthalene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-10 | 2018201-03 | 2,4,6-Trichlorophenol | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | trans-Chlordane | 6/27/2020 | 5 | Y | n | u | UJ | 5.0 | 0.55 | ug/L |
| MW-10 | 2018201-03 | trans-Diallate | 6/27/2020 | 5 | Y | n | u | UJ | 5.0 | 0.56 | ug/L |
| MW-10 | 2018201-03 | 2,6-Dichlorophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.28 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Dimethoate | 6/27/2020 | 20 | Y | n | u | | 20 | 0.99 | ug/L |
| MW-10 | 2018201-03 | p-(Dimethylamino)azobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-10 | 2018201-03 | Diallate | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 3.0 | ug/L |
| MW-10 | 2018201-03 | 7,12-Dimethylbenz[a]anthracene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.37 | ug/L |
| MW-10 | 2018201-03 | a,a-Dimethylphenethylamine | 6/27/2020 | 20 | Y | n | u | | 20 | 4.9 | ug/L |
| MW-10 | 2018201-03 | Dimethyl sulfoxide (DMSO) | 6/27/2020 | 10 | Y | n | u | | 10 | 9.5 | ug/L |
| MW-10 | 2018201-03 | 1,3-Dinitrobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.93 | ug/L |
| MW-10 | 2018201-03 | 3,3'-Dimethylbenzidine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 0.42 | ug/L |
| MW-10 | 2018201-03 | Diphenylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-10 | 2018201-03 | Chlorobenzilate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-10 | 2018201-03 | 2,4-Dichlorophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-10 | 2018201-03 | 2-Nitroaniline | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 3-Nitroaniline | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-10 | 2018201-03 | 4-Nitroaniline | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.38 | ug/L |
| MW-10 | 2018201-03 | Nitrobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosodimethylamine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 1.2 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosodi-N-propylamine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-10 | 2018201-03 | N-Nitrosodiphenylamine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Phenanthrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Pyrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-10 | 2018201-03 | 1,2,4-Trichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Dieldrin | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.39 | ug/L |
| MW-10 | 2018201-03 | 2-Chlorophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Acenaphthylene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 2,4-Dimethylphenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | 4,6-Dinitro-2-methylphenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.24 | ug/L |
| MW-10 | 2018201-03 | 2,4-Dinitrophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 2-Methylphenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 3- & 4-Methylphenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-10 | 2018201-03 | Total Methylphenol | 6/27/2020 | 4 | Y | n | u | | 4.0 | 0.60 | ug/L |
| MW-10 | 2018201-03 | 2-Nitrophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 4-Nitrophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-10 | 2018201-03 | Pentachlorophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-10 | 2018201-03 | 1,3-Dichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | Phenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-10 | 2018201-03 | 2,4,5-Trichlorophenol | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-10 | 2018201-03 | 4-Chloro-3-methylphenol | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-13 | 2018201-04 | 1,4-Dioxane | 7/7/2020 | 1 | Y | n | u | | 1.0 | 0.16 | ug/L |
| MW-5 | 2018201-02 | Hydroquinone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Fensulfothion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Ethion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Nitrophen | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | EPN | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Endrin ketone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 5,5-Diphenylhydantoin | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Ethyl carbamate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Toluene 2,4-diisocyanate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Piperonyl sulfoxide | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Propylthiouracil | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Resorcinol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|----|-----|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Strychnine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Sulfallate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Terbufos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Tetrachlorvinphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 5-Nitro-o-anisidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Thiophenol (Benzenethiol) | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Phosmet | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Trifluralin | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 2,4,5-Trimethylaniline | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Trimethyl phosphate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Tris(2,3-dibromopropyl) phosphate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Tri-p-tolyl phosphate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Hexamethylphosphoramide | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Fenthion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Fluchloralin | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | TEPP | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Naled | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Leptophos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Malathion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Maleic Anhydride | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Mestranol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 4,4'-Methylenebis(2-chloroaniline) | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 4,4'-Methylenebis[N,N-dimethylaniline] | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Mevinphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Mexacarbate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-------------------------------|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Phthalic anhydride | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Monocrotophos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Phosphamidon | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Nicotine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 5-Nitroacenaphthene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 4-Nitrobiphenyl | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Octamethylpyrophosphoramidate | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 4,4'-Oxydianiline | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Phenobarbital | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Phosalone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Dichlone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Mirex | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | PCB-1268 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | Pyridine | 6/27/2020 | 10 | Y | n | u | | 10 | 1.6 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosomethylethylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosomorpholine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.63 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosopiperidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.47 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosopyrrolidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.39 | ug/L |
| MW-5 | 2018201-02 | 3-Methylcholanthrene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.31 | ug/L |
| MW-5 | 2018201-02 | Pentachloronitrobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.42 | ug/L |
| MW-5 | 2018201-02 | Phenacetin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.75 | ug/L |
| MW-5 | 2018201-02 | 1,4-Phenylenediamine | 6/27/2020 | 20 | Y | n | u | | 20 | 1.1 | ug/L |
| MW-5 | 2018201-02 | Phorate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.35 | ug/L |
| MW-5 | 2018201-02 | 2-Picoline | 6/27/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosodibutylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | PCB-1248 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | Dinoseb | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.91 | ug/L |
| MW-5 | 2018201-02 | PCB-1221 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | PCB-1260 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | PCB-1254 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | PCB-1242 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | PCB-1016 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | PCB-1232 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | Total PCB's (Summation) | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | Prometryn | 6/27/2020 | 10 | Y | n | u | | 10 | 1.7 | ug/L |
| MW-5 | 2018201-02 | 1-Naphthylamine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 0.30 | ug/L |
| MW-5 | 2018201-02 | Propyleneglycol monomethyl ether acetate | 6/27/2020 | 10 | Y | n | u | | 10 | 3.7 | ug/L |
| MW-5 | 2018201-02 | 1,3-Dinitrobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.93 | ug/L |
| MW-5 | 2018201-02 | PCB-1262 | 6/27/2020 | 50 | Y | n | u | | 50 | 25 | ug/L |
| MW-5 | 2018201-02 | Kepone | 6/27/2020 | 20 | Y | n | u | | 20 | 2.2 | ug/L |
| MW-5 | 2018201-02 | trans-Diallate | 6/27/2020 | 5 | Y | n | u | UJ | 5.0 | 0.56 | ug/L |
| MW-5 | 2018201-02 | Diphenylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-5 | 2018201-02 | Acenaphthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Ethyl methacrylate | 6/27/2020 | 10 | Y | n | u | | 10 | 1.2 | ug/L |
| MW-5 | 2018201-02 | Dibenzo[a,e]pyrene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Ethyl Parathion | 6/27/2020 | 10 | Y | n | u | | 10 | 0.53 | ug/L |
| MW-5 | 2018201-02 | Famphur | 6/27/2020 | 20 | Y | n | u | | 20 | 4.1 | ug/L |
| MW-5 | 2018201-02 | Diallate | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 3.0 | ug/L |
| MW-5 | 2018201-02 | Hexachloropropene | 6/27/2020 | 20 | Y | n | u | | 20 | 0.23 | ug/L |
| MW-5 | 2018201-02 | Isodrin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.43 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | cis-Isosafrole | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.44 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosodiethylamine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.55 | ug/L |
| MW-5 | 2018201-02 | Isosafrole | 6/27/2020 | 10 | Y | n | u | | 10 | 0.73 | ug/L |
| MW-5 | 2018201-02 | Safrole | 6/27/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-5 | 2018201-02 | Methapyrilene | 6/27/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-5 | 2018201-02 | Methoxychlor | 6/27/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 7,12-Dimethylbenz[a]anthracene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.37 | ug/L |
| MW-5 | 2018201-02 | Methyl methacrylate | 6/27/2020 | 40 | Y | n | u | | 40 | 3.8 | ug/L |
| MW-5 | 2018201-02 | Methyl methanesulfonate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-5 | 2018201-02 | 1-Methylnaphthalene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.26 | ug/L |
| MW-5 | 2018201-02 | Methyl parathion | 6/27/2020 | 10 | Y | n | u | | 10 | 0.71 | ug/L |
| MW-5 | 2018201-02 | N-Methyl-2-pyrrolidinone | 6/27/2020 | 10 | Y | n | u | | 10 | 2.5 | ug/L |
| MW-5 | 2018201-02 | 1,4-Naphthoquinone | 6/27/2020 | 20 | Y | n | u | | 20 | 0.87 | ug/L |
| MW-5 | 2018201-02 | 3,3'-Dimethylbenzidine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 0.42 | ug/L |
| MW-5 | 2018201-02 | 5-Nitro-o-toluidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.85 | ug/L |
| MW-5 | 2018201-02 | trans-Isosafrole | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.29 | ug/L |
| MW-5 | 2018201-02 | Diethylstilbestrol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Prowl | 6/27/2020 | 10 | Y | n | u | | 10 | 0.83 | ug/L |
| MW-5 | 2018201-02 | 4-Chloro-1,3-phenylenediamine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Coumaphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | p-Cresidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Crotoxyphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 2-Cyclohexyl-4,6-dinitrophenol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Demeton-O | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Demeton-S | 6/27/2020 | 0 | Y | y | v | | | | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---|-----------|--------|--------|--------|----------|----------|----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | 2,4-Diaminotoluene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Dibenz[a,j]acridine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 1,2-Dibromo-3-chloropropane | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 3-(Chloromethyl) pyridine hydrochloride | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Dicrotophos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 5-Chloro-2-methylaniline | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Diethyl sulfite | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Dihydrosafrole | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 3,3'-Dimethoxybenzidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 1,2-Dinitrobenzene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 1,4-Dinitrobenzene | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Dinocap | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Dioxathion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Pronamide | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.22 | ug/L |
| MW-5 | 2018201-02 | 2,3,4,6-Tetrachlorophenol | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.73 | ug/L |
| MW-5 | 2018201-02 | 1,3,5-Trinitrobenzene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 1.4 | ug/L |
| MW-5 | 2018201-02 | Pentachloroethane | 6/27/2020 | 20 | Y | n | u | | 20 | 0.31 | ug/L |
| MW-5 | 2018201-02 | Dichlorvos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Anilazine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Sulfotep | 6/27/2020 | 10 | Y | n | u | | 10 | 0.23 | ug/L |
| MW-5 | 2018201-02 | 1,2,4,5-Tetrachlorobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2,3,4,5-Tetrachlorophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-5 | 2018201-02 | 4-Nitroquinoline 1-oxide | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 0.95 | ug/L |
| MW-5 | 2018201-02 | Thionazin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.38 | ug/L |
| MW-5 | 2018201-02 | 2-Toluidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.41 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Toxaphene | 6/27/2020 | 100 | Y | n | u | | 100 | 50 | ug/L |
| MW-5 | 2018201-02 | o,o,o-Triethylphosphorothioate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-5 | 2018201-02 | Pentachlorobenzene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Tris(hydroxymethyl)nitromethane | 6/27/2020 | 50 | Y | n | u | | 50 | 5.0 | ug/L |
| MW-5 | 2018201-02 | 1-Acetyl-2-thiourea | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 4-Chloro-1,2-phenylenediamine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 3-Amino-9-ethylcarbazole | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Disulfoton | 6/27/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-5 | 2018201-02 | o-Anisidine | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Azinphos methyl | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Barban | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | p-Benzoquinone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Bromoxynil | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Captafol | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Captan | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Carbaryl | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Carbofuran | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Carbophenothion | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | Chlorfenvinphos | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 2-Aminoanthraquinone | 6/27/2020 | 0 | Y | y | v | | | | ug/L |
| MW-5 | 2018201-02 | 2,6-Dinitrotoluene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Hexachlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.25 | ug/L |
| MW-5 | 2018201-02 | 4,4'-DDT | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-5 | 2018201-02 | Dibenzo[a,h]anthracene | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.34 | ug/L |
| MW-5 | 2018201-02 | Dibenzofuran | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | 1,2-Dichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 1,3-Dichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 1,4-Dichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.27 | ug/L |
| MW-5 | 2018201-02 | 3,3-Dichlorobenzidine | 6/27/2020 | 10 | Y | n | u | | 10 | 0.53 | ug/L |
| MW-5 | 2018201-02 | Dieldrin | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.39 | ug/L |
| MW-5 | 2018201-02 | Diethyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Dimethyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 4,4'-DDD | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-5 | 2018201-02 | 2,4-Dinitrotoluene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-5 | 2018201-02 | Chrysene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Di-n-octyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-5 | 2018201-02 | 1,2-Diphenylhydrazine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Endosulfan I | 6/27/2020 | 10 | Y | n | u | | 10 | 0.31 | ug/L |
| MW-5 | 2018201-02 | Endosulfan II | 6/27/2020 | 10 | Y | n | u | | 10 | 0.30 | ug/L |
| MW-5 | 2018201-02 | Endosulfan sulfate | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.23 | ug/L |
| MW-5 | 2018201-02 | Endrin | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.38 | ug/L |
| MW-5 | 2018201-02 | Ethyl methanesulfonate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.61 | ug/L |
| MW-5 | 2018201-02 | Fluoranthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.28 | ug/L |
| MW-5 | 2018201-02 | Dimethyl sulfoxide (DMSO) | 6/27/2020 | 10 | Y | n | u | | 10 | 9.5 | ug/L |
| MW-5 | 2018201-02 | Heptachlor | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Heptachlor epoxide | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.26 | ug/L |
| MW-5 | 2018201-02 | Di-n-butyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | alpha-BHC | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Acenaphthylene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Aldrin | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Aniline | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.28 | ug/L |
| MW-5 | 2018201-02 | Anthracene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2-Naphthylamine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 1.3 | ug/L |
| MW-5 | 2018201-02 | Benzo[a]anthracene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-5 | 2018201-02 | Benzo[b]fluoranthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.24 | ug/L |
| MW-5 | 2018201-02 | Benzo[k]fluoranthene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-5 | 2018201-02 | Benzo[a]pyrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Benzo[g,h,i]perylene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-5 | 2018201-02 | Benzoic acid | 6/27/2020 | 10 | Y | n | u | | 10 | 0.52 | ug/L |
| MW-5 | 2018201-02 | 4,4'-DDE | 6/27/2020 | 3 | Y | n | u | | 3.0 | 0.24 | ug/L |
| MW-5 | 2018201-02 | Benzyl butyl phthalate | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Fluorene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | beta-BHC | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | delta-BHC | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | gamma-BHC (Lindane) | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | bis(2-Chloroethoxy)methane | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | bis(2-Chloroethyl) ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-5 | 2018201-02 | bis(2-Chloroisopropyl)ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | bis(2-Ethylhexyl)phthalate | 6/27/2020 | 4 | Y | n | u | | 4.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 4-Bromophenyl phenyl ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 4-Chloroaniline | 6/27/2020 | 2 | Y | n | u | | 2.0 | 1.1 | ug/L |
| MW-5 | 2018201-02 | 2-Chloronaphthalene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 4-Chlorophenyl phenyl ether | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Benzyl alcohol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Carbazole | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

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| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Hexachlorobutadiene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Pentachlorophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.40 | ug/L |
| MW-5 | 2018201-02 | Endrin aldehyde | 6/27/2020 | 10 | Y | n | u | | 10 | 0.44 | ug/L |
| MW-5 | 2018201-02 | 2,4,5-Trichlorophenol | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2,4,6-Trichlorophenol | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Acetophenone | 6/27/2020 | 10 | Y | n | u | | 10 | 0.33 | ug/L |
| MW-5 | 2018201-02 | Benzidine | 6/27/2020 | 20 | Y | n | u | UJ | 20 | 1.6 | ug/L |
| MW-5 | 2018201-02 | Acrolein, dimethyl acetal | 6/27/2020 | 40 | Y | n | u | | 40 | 6.1 | ug/L |
| MW-5 | 2018201-02 | 4-Aminobiphenyl | 6/27/2020 | 20 | Y | n | u | | 20 | 0.35 | ug/L |
| MW-5 | 2018201-02 | Benzaldehyde | 6/27/2020 | 10 | Y | n | u | | 10 | 2.9 | ug/L |
| MW-5 | 2018201-02 | Benefin | 6/27/2020 | 10 | Y | n | u | | 10 | 0.88 | ug/L |
| MW-5 | 2018201-02 | 2-Nitrophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Caprolactam | 6/27/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-5 | 2018201-02 | 4-Nitrophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.30 | ug/L |
| MW-5 | 2018201-02 | Hexachlorophene | 6/27/2020 | 200 | Y | n | u | UJ | 200 | 20 | ug/L |
| MW-5 | 2018201-02 | Chlorobenzilate | 6/27/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-5 | 2018201-02 | 1-Chloronaphthalene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.37 | ug/L |
| MW-5 | 2018201-02 | cis-Diallate | 6/27/2020 | 5 | Y | n | u | | 5.0 | 2.4 | ug/L |
| MW-5 | 2018201-02 | 2-Acetylaminofluorene | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.78 | ug/L |
| MW-5 | 2018201-02 | Aramite | 6/27/2020 | 10 | Y | n | u | UJ | 10 | 0.35 | ug/L |
| MW-5 | 2018201-02 | 2,6-Dichlorophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.28 | ug/L |
| MW-5 | 2018201-02 | Dimethoate | 6/27/2020 | 20 | Y | n | u | | 20 | 0.99 | ug/L |
| MW-5 | 2018201-02 | p-(Dimethylamino)azobenzene | 6/27/2020 | 10 | Y | n | u | | 10 | 0.27 | ug/L |
| MW-5 | 2018201-02 | cis-Chlordane | 6/27/2020 | 5 | Y | n | u | UJ | 5.0 | 0.59 | ug/L |
| MW-5 | 2018201-02 | trans-Chlordane | 6/27/2020 | 5 | Y | n | u | UJ | 5.0 | 0.55 | ug/L |

SDG: 2018201

| Analytical Method | | EPA-8270C | | | | | | | | | |
|-------------------|---------------|----------------------------|-----------|--------|--------|--------|----------|----------|-----|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | a,a-Dimethylphenethylamine | 6/27/2020 | 20 | Y | n | u | | 20 | 4.9 | ug/L |
| MW-5 | 2018201-02 | 1,1-Biphenyl | 6/27/2020 | 10 | Y | n | u | | 10 | 3.6 | ug/L |
| MW-5 | 2018201-02 | 4-Nitroaniline | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.38 | ug/L |
| MW-5 | 2018201-02 | Hexachlorocyclopentadiene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.31 | ug/L |
| MW-5 | 2018201-02 | Hexachloroethane | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Indeno[1,2,3-cd]pyrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.29 | ug/L |
| MW-5 | 2018201-02 | Isophorone | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2-Methylnaphthalene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Naphthalene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | Phenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-5 | 2018201-02 | 3-Nitroaniline | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-5 | 2018201-02 | Total Methylphenol | 6/27/2020 | 4 | Y | n | u | | 4.0 | 0.60 | ug/L |
| MW-5 | 2018201-02 | Nitrobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosodimethylamine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 1.2 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosodi-N-propylamine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.21 | ug/L |
| MW-5 | 2018201-02 | 2,4-Dimethylphenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 3- & 4-Methylphenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.40 | ug/L |
| MW-5 | 2018201-02 | 2-Methylphenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2-Nitroaniline | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 4,6-Dinitro-2-methylphenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.24 | ug/L |
| MW-5 | 2018201-02 | N-Nitrosodiphenylamine | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2,4-Dichlorophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.23 | ug/L |
| MW-5 | 2018201-02 | 2-Chlorophenol | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 4-Chloro-3-methylphenol | 6/27/2020 | 5 | Y | n | u | | 5.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 1,2,4-Trichlorobenzene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |

SDG: 2018201

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| EPA-8270C | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-5 | 2018201-02 | Pyrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.22 | ug/L |
| MW-5 | 2018201-02 | Phenanthrene | 6/27/2020 | 2 | Y | n | u | | 2.0 | 0.20 | ug/L |
| MW-5 | 2018201-02 | 2,4-Dinitrophenol | 6/27/2020 | 10 | Y | n | u | | 10 | 0.20 | ug/L |

| Analytical Method | | | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| SM-2320B | | | | | | | | | | | |
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-10 | 2018201-03 | Bicarbonate | 6/26/2020 | 160 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-10 | 2018201-03 | Carbonate | 6/26/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-10 | 2018201-03 | Total Alkalinity as CaCO3 | 6/26/2020 | 130 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-13 | 2018201-04 | Bicarbonate | 6/26/2020 | 190 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-13 | 2018201-04 | Carbonate | 6/26/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-13 | 2018201-04 | Total Alkalinity as CaCO3 | 6/26/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-5 | 2018201-02 | Carbonate | 6/26/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-5 | 2018201-02 | Total Alkalinity as CaCO3 | 6/26/2020 | 120 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-5 | 2018201-02 | Bicarbonate | 6/26/2020 | 150 | Y | y | v | | 5.0 | 5.0 | mg/L |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: NASA JPL, 2Q2020
LDC Report Date: August 13, 2020
Parameters: Volatiles
Validation Level: Level III & IV
Laboratory: BC Laboratories, Inc.
Sample Delivery Group (SDG): 2018328

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| TB-13-062520 | 2018328-01 | Water | 06/25/20 |
| MW-1 | 2018328-02 | Water | 06/25/20 |
| MW-6** | 2018328-03** | Water | 06/25/20 |
| MW-7 | 2018328-04 | Water | 06/25/20 |
| MW-8** | 2018328-05** | Water | 06/25/20 |
| MW-9 | 2018328-06 | Water | 06/25/20 |
| MW-15 | 2018328-07 | Water | 06/25/20 |
| MW-16 | 2018328-08 | Water | 06/25/20 |
| Dup-7-2Q2020 | 2018328-09 | Water | 06/25/20 |
| Dup-8-2Q2020 | 2018328-10 | Water | 06/25/20 |
| MW-6MS | 2018328-03MS | Water | 06/25/20 |
| MW-6MSD | 2018328-03MSD | Water | 06/25/20 |
| MW-8MS | 2018328-05MS | Water | 06/25/20 |
| MW-8MSD | 2018328-05MSD | Water | 06/25/20 |

**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 with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|-------------------|------|----------------------------|----------------------|--------|
| 06/18/20 | Pentachloroethane | 76.0 | All samples in SDG 2018328 | UJ (all non-detects) | P |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|----------|---------------|------|----------------------------|----------------------|--------|
| 06/30/20 | Methyl iodide | 48.2 | All samples in SDG 2018328 | 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-13-062520 was identified as a trip blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples MW-1 and Dup-8-2Q2020 and samples MW-15 and Dup-7-2Q2020 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 ICV %D and continuing calibration %D, data were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Volatiles - Data Qualification Summary - SDG 2018328**

| Sample | Compound | Flag | A or P | Reason |
|--|-------------------|----------------------|--------|---------------------------------------|
| TB-13-062520 MW-1 MW-6** MW-7 MW-8** MW-9 MW-15 MW-16 Dup-7-2Q2020 Dup-8-2Q2020 | Pentachloroethane | UJ (all non-detects) | P | Initial calibration verification (%D) |
| TB-13-062520 MW-1 MW-6** MW-7 MW-8** MW-9 MW-15 MW-16 Dup-7-2Q2020 Dup-8-2Q2020 | Methyl iodide | UJ (all non-detects) | P | Continuing calibration (%D) |

**NASA JPL, 2Q2020
Volatiles - Laboratory Blank Data Qualification Summary - SDG 2018328**

No Sample Data Qualified in this SDG

LDC #: 48752E1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2018328

Level III/IV

Laboratory: BC Laboratories, Inc.

Date: 2/17/20

Page: 1 of 1

Reviewer: G

2nd Reviewer: P

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/W | RSDS 20%. Y ² LEV = 39% |
| IV. | Continuing calibration | W | LEV = 39% |
| 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 | ND | D = 2 + 10. T + 9 |
| XI. | Internal standards | A | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | A | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|-----------------------------|---------------|--------|----------|
| 1 | TB-13-062520 | 2018328-01 | Water | 06/25/20 |
| 2 | MW-1 D ¹ | 2018328-02 | Water | 06/25/20 |
| 3 | MW-6** | 2018328-03** | Water | 06/25/20 |
| 4 | MW-7 | 2018328-04 | Water | 06/25/20 |
| 5 | MW-8** | 2018328-05** | Water | 06/25/20 |
| 6 | MW-9 | 2018328-06 | Water | 06/25/20 |
| 7 | MW-15 D | 2018328-07 | Water | 06/25/20 |
| 8 | MW-16 | 2018328-08 | Water | 06/25/20 |
| 9 | Dup-7-2Q2020 D | 2018328-09 | Water | 06/25/20 |
| 10 | Dup-8-2Q2020 D ¹ | 2018328-10 | Water | 06/25/20 |
| 11 | MW-6MS | 2018328-03MS | Water | 06/25/20 |
| 12 | MW-6MSD | 2018328-03MSD | Water | 06/25/20 |
| 13 | MW-8MS | 2018328-05MS | Water | 06/25/20 |
| 14 | MW-8MSD | 2018328-05MSD | Water | 06/25/20 |

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA Method 524.2)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-----|----|----|-------------------|
| I. Technical holding times | | | | |
| Were all technical holding times met? | / | | | |
| Was cooler temperature criteria met? | / | | | |
| II. GC/MS Instrument performance check | | | | |
| Was a tune check performed prior to establishing and/or re-establishing an initial calibration? | / | | | |
| Were the BFB performance results reviewed and found to be within the specified criteria? | / | | | |
| III. Initial calibration | | | | |
| Did the laboratory perform at least 5 point calibration prior to sample analysis? | / | | | |
| Were all percent relative standard deviations (%RSD) \leq 20%? | / | 0 | | |
| IIIa. Initial Calibration Verification calibration | | | | |
| Was an initial calibration verification standard analyzed after each initial calibration for each instrument? | / | / | | |
| Were all percent differences (%D) $<$ 30%? | | / | | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at the beginning of each analysis batch? | / | | | |
| Were all percent differences (%D) of continuing calibration $<$ 30%? | | / | | |
| V. Laboratory Blanks | | | | |
| Was a laboratory blank associated with every sample in this SDG? | / | | | |
| Was a laboratory blank analyzed with each analysis batch? | / | | | |
| Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet. | | / | | |
| VI. Field blanks | | | | |
| Field blanks were identified in this SDG. | / | | | |
| Target compounds were detected in the field blanks. | | / | | |
| VII. Surrogate spikes | | | | |
| Were all surrogate %R within the QC limits? | / | | | |
| If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria? | | | / | |
| VIII. Matrix spike/Matrix spike duplicates | | | | |
| Was a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for this SDG? | / | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | / | | | |
| IX. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |

LDC #: 107526/a

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-------------------------------------|-------------------------------------|--------------------------|-------------------|
| Was an LCS analyzed per analytical batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the LCS percent recoveries (%R) within 70-130%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| X. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field duplicates. | <input 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 Method 524.2)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-----------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (initial) | Average RRF (initial) | %RSD | %RSD |
| 1 | ICAL (MS-V5) | 6/29/20 | K (1st internal standard) | 0.7432065 | 0.7432065 | 0.73143 | 0.73143 | 2.22381 | 2.224 |
| | | | S (2nd internal standard) | 0.3601888 | 0.3601888 | 0.3467362 | 0.3467362 | 3.754152 | 3.754 |
| | | | EE (3rd internal standard) | 1.778651 | 1.77651 | 1.755033 | 1.755033 | 12.32981 | 12.330 |
| | | | (4th internal standard) | | | | | | |
| 2 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 3 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |
| 4 | | | (1st internal standard) | | | | | | |
| | | | (2nd internal standard) | | | | | | |
| | | | (3rd internal standard) | | | | | | |
| | | | (4th internal standard) | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA Method 524.2)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
 $RRF = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference internal Standard) | Average RRF (initial) | Reported RRF (CC) | Recalculated RRF (CC) | Reported %D | Recalculated %D |
|---|-------------|------------------|--|-----------------------|-------------------|-----------------------|-------------|-----------------|
| 1 | 30JUN02 | 6/30/20 | K (1st internal standard) | 0.73143 | 0.7077904 | 0.7077903 | 3.2 | 3.2 |
| | | | S (2nd internal standard) | 0.3467362 | 0.3186477 | 0.3186477 | 8.1 | 8.1 |
| | | | EE (3rd internal standard) | 1.755033 | 1.602045 | 1.602045 | 8.7 | 8.7 |
| | | | (4th internal standard) | | | | | |
| 2 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 3 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (4th internal standard) | | | | | |
| 4 | | | (1st internal standard) | | | | | |
| | | | (2nd internal standard) | | | | | |
| | | | (3rd internal standard) | | | | | |
| | | | (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 #: 1815-219

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: Q
2nd reviewer: A

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 5

| | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|--|------------------|-----------------|------------------|------------------|--------------------|
| | | | Reported | Recalculated | |
| Toluene-d8 | 10.0 | 10.04 | 100 | 100 | |
| Bromofluorobenzene | ↓ | 10.33 | 103 | 103 | |
| 1,2-Dichlorobenzene-d4 <u>1,2-DCE</u> | ↓ | 10.49 | 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 #: 1875249

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = |MSC - MSC| * 2 / (MSC + MSDC)

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 11/12

| Compound | Spike Added (ug) | | Sample Concentration (ug) | Spiked Sample Concentration (ug) | | 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 | 25.0 | 25.0 | ND | 26.56 | 25.61 | 106 | 106 | 102 | 102 | 3.64 | 3.64 |
| Trichloroethene | ↓ | ↓ | 2.12 | 26.81 | 26.07 | 98.8 | 98.8 | 95.8 | 95.8 | 2.80 | 2.80 |
| Benzene | ↓ | ↓ | ND | 26.07 | 24.82 | 104 | 104 | 99.3 | 99.3 | 4.91 | 4.91 |
| Toluene | ↓ | ↓ | ↓ | 24.75 | 23.89 | 97 | 97 | 95.6 | 95.6 | 1.50 | 1.50 |
| Chlorobenzene | ↓ | ↓ | ↓ | 24.100 | 23.70 | 96.4 | 96.4 | 94.8 | 94.8 | 1.67 | 1.67 |

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 #: 183219

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method 524.2)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: 3081317-351

| Compound | Spike Added (<u>14 L</u>) | | Spiked Sample Concentration (<u>14 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>25.0</u> | <u>NA</u> | <u>25.61</u> | <u>NA</u> | <u>102</u> | <u>102</u> | | | | |
| Trichloroethene | <u>↓</u> | <u>↓</u> | <u>27.02</u> | | <u>108</u> | <u>108</u> | | | | |
| Benzene | <u>↓</u> | <u>↓</u> | <u>25.50</u> | <u>↓</u> | <u>102</u> | <u>102</u> | | | | |
| Toluene | <u>↓</u> | <u>↓</u> | <u>24.43</u> | <u>↓</u> | <u>97.7</u> | <u>97.7</u> | | | | |
| Chlorobenzene | <u>↓</u> | <u>↓</u> | <u>24.35</u> | <u>↓</u> | <u>97.4</u> | <u>97.4</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, 2Q2020

LDC Report Date: August 13, 2020

Parameters: 1,4-Dioxane

Validation Level: Level III

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018328

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-16 | 2018328-08 | Water | 06/25/20 |

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8270C

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered not detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

Where average calibration factors were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

| Sample | Surrogate | %R (Limits) | Affected Compound | Flag | A or P |
|--------|----------------|--------------|-------------------|------|--------|
| MW-16 | Naphthalene-d8 | 137 (70-130) | 1,4-Dioxane | NA | - |

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable.

NASA JPL, 2Q2020
1,4-Dioxane - Data Qualification Summary - SDG 2018328

No Sample Data Qualified in this SDG

NASA JPL, 2Q2020
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG 2018328

No Sample Data Qualified in this SDG

LDC #: 48752E2c

VALIDATION COMPLETENESS WORKSHEET

SDG #: 2018328

Level III

Laboratory: BC Laboratories, Inc.

Date: 8/10

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS 1,4-Dioxane (EPA SW846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----------------|-------------------------------------|
| I. | Sample receipt/Technical holding times | A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A A | RSD ≤ 15% Y ² CV ≤ 20% |
| IV. | Continuing calibration | A | CV ≤ 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | SW | |
| VIII. | Matrix spike/Matrix spike duplicates | N | CS |
| IX. | Laboratory control samples | A 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 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-16 | 2018328-08 | Water | 06/25/20 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Notes:

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Metals

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018328

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|------------------------------|---|---------------|------------------------|
| MW-1 | 2018328-02 | Water | 06/25/20 |
| MW-7 | 2018328-04 | Water | 06/25/20 |
| MW-8** | 2018328-05** | Water | 06/25/20 |
| MW-9 | 2018328-06 | Water | 06/25/20 |
| MW-15 | 2018328-07 | Water | 06/25/20 |
| Dup-7-2Q2020 | 2018328-09 | Water | 06/25/20 |
| Dup-8-2Q2020 | 2018328-10 | Water | 06/25/20 |
| MW-8MS | 2018328-05MS | Water | 06/25/20 |
| MW-8MSD | 2018328-05MSD | Water | 06/25/20 |
| MW-16DUP | 2018328-08DUP | Water | 06/25/20 |

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Arsenic, Calcium, Chromium, Iron, Lead, Magnesium, Potassium, and Sodium by Environmental Protection Agency (EPA) Methods 200.7/200.8

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the methods.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|-----------------------|-----------------------------|---|
| PB (prep blank) | Calcium | 0.018287 mg/L | All samples in SDG 2018328 |
| ICB/CCB | Chromium Magnesium | 0.544 ug/L 0.024997 mg/L | All samples in SDG 2018328 |
| ICB/CCB | Calcium | 0.22342 mg/L | MW-1 MW-8** |
| ICB/CCB | Calcium | 0.21753 mg/L | MW-7 MW-9 MW-15 Dup-7-2Q2020 Dup-8-2Q2020 |

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-9 | Chromium | 2.2 ug/L | 2.2U ug/L |
| MW-15 | Chromium | 0.98 ug/L | 0.98U ug/L |
| Dup-7-2Q2020 | Chromium | 1.1 ug/L | 1.1U ug/L |

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For MW-8MS/MSD, no data were qualified for calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution 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-15 and Dup-7-2Q2020 and samples MW-1 and Dup-8-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|---------|---------------|--------------|-----|
| | MW-15 | Dup-7-2Q2020 | |
| Arsenic | 0.88 ug/L | 0.86 ug/L | 2 |

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|-----|
| | MW-15 | Dup-7-2Q2020 | |
| Calcium | 50 mg/L | 47 mg/L | 6 |
| Chromium | 0.98 ug/L | 1.1 ug/L | 12 |
| Iron | 45 ug/L | 41 ug/L | 9 |
| Magnesium | 16 mg/L | 15 mg/L | 6 |
| Potassium | 2.7 mg/L | 2.7 mg/L | 0 |
| Sodium | 25 mg/L | 24 mg/L | 4 |

| Analyte | Concentration | | RPD |
|-----------|---------------|--------------|-----|
| | MW-1 | Dup-8-2Q2020 | |
| Calcium | 76 mg/L | 73 mg/L | 4 |
| Iron | 30 ug/L | 32 ug/L | 6 |
| Magnesium | 23 mg/L | 22 mg/L | 4 |
| Potassium | 3.5 mg/L | 3.3 mg/L | 6 |
| Sodium | 33 mg/L | 31 mg/L | 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 methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Metals - Data Qualification Summary - SDG 2018328**

No Sample Data Qualified in this SDG

**NASA JPL, 2Q2020
Metals - Laboratory Blank Data Qualification Summary - SDG 2018328**

| Sample | Analyte | Modified Final Concentration | A or P |
|--------------|----------|------------------------------|--------|
| MW-9 | Chromium | 2.2U ug/L | A |
| MW-15 | Chromium | 0.98U ug/L | A |
| Dup-7-2Q2020 | Chromium | 1.1U ug/L | A |

LDC #: 48752E4a

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20


SDG #: 2018328

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: **METHOD:** Metals (EPA Method 200.7/200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----|--|
| I. | Sample receipt/Technical holding times | A/A | |
| II. | ICP/MS Tune | A | |
| III. | Instrument Calibration | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Laboratory Blanks | SW | |
| VI. | Field Blanks | N | |
| VII. | Matrix Spike/Matrix Spike Duplicates | A | (8,9): Ca > 4X |
| VIII. | Duplicate sample analysis | A | 10 |
| IX. | Serial Dilution | A | |
| X. | Laboratory control samples | A | LCS |
| XI. | Field Duplicates | SW | (5,6), (1,7) |
| 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 sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-1 | 2018328-02 | Water | 06/25/20 |
| 2 | MW-7 | 2018328-04 | Water | 06/25/20 |
| 3 | MW-8** | 2018328-05** | Water | 06/25/20 |
| 4 | MW-9 | 2018328-06 | Water | 06/25/20 |
| 5 | MW-15 | 2018328-07 | Water | 06/25/20 |
| 6 | Dup-7-2Q2020 | 2018328-09 | Water | 06/25/20 |
| 7 | Dup-8-2Q2020 | 2018328-10 | Water | 06/25/20 |
| 8 | MW-8MS | 2018328-05MS | Water | 06/25/20 |
| 9 | MW-8MSD | 2018328-05MSD | Water | 06/25/20 |
| 10 | MW-16DUP | 2018328-08DUP | Water | 06/25/20 |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |

Notes: _____

| METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000) | | | | |
|--|-----|----|----|--------------|
| Validation Area | Yes | No | NA | Comments |
| I. Technical holding times | | | | |
| Were all technical holding times met? | X | | | |
| Were all water samples preserved to a pH of <2. | X | | | |
| II. ICP-MS Tune | | | | |
| Were mass resolutions within 0.1 amu for all isotopes in the tuning solution? | X | | | |
| Were %RSDs of isotopes in the tuning solution $\leq 5\%$? | X | | | |
| III. Calibration | | | | |
| Were all instruments calibrated daily? | X | | | |
| Were the proper standards used? | X | | | |
| Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits? | X | | | |
| Were the low level standard checks within 70-130%? | | | X | not provided |
| Were all initial calibration correlation coefficients within limits as specified by the method? | X | | | |
| IV. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | X | | | |
| Was there contamination in the method blanks? | X | | | |
| Was there contamination in the initial and continuing calibration blanks? | X | | | |
| V. Interference Check Sample | | | | |
| Were the interference check samples performed daily? | X | | | |
| Were the AB solution recoveries within 80-120%? | X | | | |
| VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates | | | | |
| Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.) | X | | | |
| Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits? | X | | | |
| VII. Laboratory Control Samples | | | | |
| SDG? | X | | | |

| | | | | |
|---|------------|-----------|-----------|-----------------|
| Were the LCS recoveries and RPDs (if applicable) within QC limits? | X | | | |
| METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000) | | | | |
| Validation Area | Yes | No | NA | Comments |
| VIII. Internal Standards | | | | |
| Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits? | X | | | |
| If the recoveries were outside the limits, was a reanalysis performed? | | | X | |
| IX. Serial Dilution | | | | |
| Were all percent differences <10%? | X | | | |
| Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data. | | X | | |
| X. Sample Result Verification | | | | |
| Were all reporting limits adjusted to reflect sample dilutions? | X | | | |
| Were all soil samples dry weight corrected? | | | X | |
| XI. Overall Assessment of Data | | | | |
| Was the overall assessment of the data found to be acceptable? | X | | | |
| XII. Field Duplicates | | | | |
| Were field duplicates identified in this SDG? | X | | | |
| Were target analytes detected in the field duplicates? | X | | | |
| XIII. Field Blanks | | | | |
| Were field blanks identified in this SDG? | | X | | |
| Were target analytes detected in the field blanks? | | | X | |

All elements are applicable to each sample as noted below.

| Sample ID | Target Analyte List |
|-----------|-------------------------|
| 1 to 7 | Fe, As,Cr,Pb,Ca,Mg,Na,K |
| | |
| | |
| QC | |
| 8,9,10 | Fe, As,Cr,Pb,Ca,Mg,Na,K |
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Analysis Method

| | |
|--------|---------------|
| ICP | Fe,Ca,Mg,Na,K |
| ICP-MS | As,Cr,Pb |
| CVAA | |

Field Duplicates

Method: Metals

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|-----------------|----------------------|------|-----|---------------------------|
| | 5 | 6 | | |
| Arsenic (ug/L) | 0.88 | 0.86 | 2 | |
| Calcium | 50 | 47 | 6 | |
| Chromium (ug/L) | 0.98 | 1.1 | 12 | |
| Iron (ug/L) | 45 | 41 | 9 | |
| Magnesium | 16 | 15 | 6 | |
| Potassium | 2.7 | 2.7 | 0 | |
| Sodium | 25 | 24 | 4 | |

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|-------------|----------------------|-----|-----|---------------------------|
| | 1 | 7 | | |
| Calcium | 76 | 73 | 4 | |
| Iron (ug/L) | 30 | 32 | 6 | |
| Magnesium | 23 | 22 | 4 | |
| Potassium | 3.5 | 3.3 | 6 | |
| Sodium | 33 | 31 | 6 | |

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

| Standard ID | Type of Analysis | Element | Found | True | Recalculated %R | Reported %R | Acceptable (Y/N) |
|-------------|------------------|-----------|--------|------|-----------------|-------------|------------------|
| ICV | ICP | Fe (mg/L) | 20.34 | 20 | 101.7 | 102 | Y |
| CCV | ICP | Na (mg/L) | 49.96 | 50 | 99.92 | 99.9 | Y |
| LLCC | ICP | | | | | | |
| ICSAB | ICP | Mg (mg/L) | 513.9 | 500 | 102.78 | 103 | Y |
| ICV | ICP-MS | Cr (ug/L) | 50.995 | 50 | 101.99 | 102 | Y |
| CCV | ICP-MS | As (ug/L) | 98.509 | 100 | 98.509 | 98.5 | Y |
| LLCC | ICP-MS | | | | | | |
| ICSAB | ICP-MS | | | | | | |
| ICV | CVAA | | | | | | |
| CCV | CVAA | | | | | | |

| ICP-MS Tune | QC Parameter | Mass | Actual | Required |
|-------------|--------------|--------|--------|-----------|
| | Mass Axis | 23.985 | 23.978 | ± 0.1 amu |
| | %RSD | 114.9 | 0.9 | ≤ 5% |

VALIDATION FINDINGS CHECKLIST
Quality Control Sample Recalculations

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

| Sample ID | Type of Analysis | Element | Found/S/I | True/D/SDR | Recalculated %R/RPD/%D | Reported %R/RPD/%D | Acceptable (Y/N) |
|-----------|------------------|---------|-----------|------------|---------------------------|-----------------------|------------------|
| LCS | LCS | Na | 10.78 | 10 | 107.8 | 108 | Y |
| 8 | MS | As | 110.224 | 100 | 110.224 | 110 | Y |
| 10 | Duplicate | Fe | 37.3 | 44.201 | 16.93476154 | 16.9 | Y |
| 3 | PDS | Pb | 102.623 | 100 | 102.623 | 103 | Y |
| 3 | Serial dilution | Mg | 16.225 | 15.83 | 2.49526216 | 2.5 | Y |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: NASA JPL, 2Q2020

LDC Report Date: August 18, 2020

Parameters: Wet Chemistry

Validation Level: Level III & IV

Laboratory: BC Laboratories, Inc.

Sample Delivery Group (SDG): 2018328

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|-----------------------|----------------------------------|--------|-----------------|
| MW-1 | 2018328-02 | Water | 06/25/20 |
| MW-6** | 2018328-03** | Water | 06/25/20 |
| MW-7 | 2018328-04 | Water | 06/25/20 |
| MW-8** | 2018328-05** | Water | 06/25/20 |
| MW-9 | 2018328-06 | Water | 06/25/20 |
| MW-15 | 2018328-07 | Water | 06/25/20 |
| MW-16 | 2018328-08 | Water | 06/25/20 |
| Dup-7-2Q2020 | 2018328-09 | Water | 06/25/20 |
| Dup-8-2Q2020 | 2018328-10 | Water | 06/25/20 |
| MW-6MS | 2018328-03MS | Water | 06/25/20 |
| MW-6MSD | 2018328-03MSD | Water | 06/25/20 |
| MW-6DUP | 2018328-03DUP | Water | 06/25/20 |
| MW-8MS | 2018328-05MS | Water | 06/25/20 |
| MW-8MSD | 2018328-05MSD | Water | 06/25/20 |
| MW-8DUP | 2018328-05DUP | Water | 06/25/20 |

**Indicates sample underwent Level IV validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Alkalinity by Standard Method 2320B

Chloride, Nitrate as Nitrogen, and Sulfate by Environmental Protection Agency (EPA) Method 300.0

Nitrite as Nitrogen by EPA Method 353.2

Hexavalent Chromium by EPA Method 218.6

Orthophosphate as Phosphorus as EPA Method 365.1

Perchlorate by EPA Method 314.0

pH by EPA Method 150.1

Total Dissolved Solids by EPA Method 160.1

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

| Sample | Analyte | Total Time From Sample Collection Until Analysis | Required Holding Time From Sample Collection Until Analysis | Flag | A or P |
|--------------|---------|--|---|-----------------|--------|
| MW-1 | pH | 92.350 hours | 48 hours | J (all detects) | P |
| MW-6** | pH | 95.683 hours | 48 hours | J (all detects) | P |
| MW-7 | pH | 94.633 hours | 48 hours | J (all detects) | P |
| MW-8** | pH | 97.283 hours | 48 hours | J (all detects) | P |
| MW-9 | pH | 92.983 hours | 48 hours | J (all detects) | P |
| MW-15 | pH | 93.800 hours | 48 hours | J (all detects) | P |
| MW-16 | pH | 94.483 hours | 48 hours | J (all detects) | P |
| Dup-7-2Q2020 | pH | 93.950 hours | 48 hours | J (all detects) | P |
| Dup-8-2Q2020 | pH | 94.433 hours | 48 hours | J (all detects) | P |

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

| Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------------------|--------------------------|--|
| ICB/CCB | Hexavalent chromium | 0.000034 mg/L | MW-1 MW-7 MW-8** MW-9 MW-15 Dup-7-2Q2020 Dup-8-2Q2020 |
| PB (prep blank) | Chloride | 0.16 mg/L | MW-8** |
| ICB/CCB | Chloride | 0.312 mg/L | MW-8** |
| PB (prep blank) | Chloride | 0.157 mg/L | MW-1 MW-6** MW-7 MW-9 MW-15 MW-16 Dup-7-2Q2020 Dup-8-2Q2020 |
| ICB/CCB | Chloride Sulfate | 0.219 mg/L 0.394 mg/L | MW-1 MW-6** MW-7 MW-9 MW-15 MW-16 Dup-7-2Q2020 |
| ICB/CCB | Chloride Sulfate | 0.176 mg/L 0.389 mg/L | Dup-8-2Q2020 |

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples MW-15 and Dup-7-2Q2020 and samples MW-1 and Dup-8-2Q2020 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Analyte | Concentration | | RPD |
|-------------------------|---------------|--------------|-----|
| | MW-15 | Dup-7-2Q2020 | |
| Alkalinity, bicarbonate | 160 mg/L | 150 mg/L | 6 |
| Alkalinity, total | 130 mg/L | 120 mg/L | 8 |
| Chloride | 26 mg/L | 29 mg/L | 11 |
| Hexavalent chromium | 0.00058 mg/L | 0.00058 mg/L | 0 |
| Nitrate as N | 0.47 mg/L | 0.49 mg/L | 4 |
| pH | 7.20 pH unit | 7.17 pH unit | 0 |
| Sulfate | 29 mg/L | 27 mg/L | 7 |
| Total dissolved solids | 270 mg/L | 270 mg/L | 0 |

| Analyte | Concentration | | RPD |
|-------------------------|---------------|--------------|-----|
| | MW-1 | Dup-8-2Q2020 | |
| Alkalinity, bicarbonate | 280 mg/L | 280 mg/L | 0 |
| Alkalinity, total | 230 mg/L | 230 mg/L | 0 |
| Chloride | 29 mg/L | 28 mg/L | 4 |
| Nitrate as N | 0.36 mg/L | 0.42 mg/L | 15 |
| pH | 7.73 pH unit | 7.60 pH unit | 2 |
| Sulfate | 57 mg/L | 58 mg/L | 2 |
| Total dissolved solids | 370 mg/L | 340 mg/L | 8 |

X. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to technical holding time, data were qualified as estimated in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**NASA JPL, 2Q2020
Wet Chemistry - Data Qualification Summary - SDG 2018328**

| Sample | Analyte | Flag | A or P | Reason |
|--|---------|-----------------|--------|-------------------------|
| MW-1 MW-6** MW-7 MW-8** MW-9 MW-15 MW-16 Dup-7-2Q2020 Dup-8-2Q2020 | pH | J (all detects) | P | Technical holding times |

**NASA JPL, 2Q2020
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 2018328**

No Sample Data Qualified in this SDG

LDC #: 48752E6

VALIDATION COMPLETENESS WORKSHEET

Date: 8/13/20

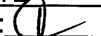
SDG #: 2018328

Level III/IV

Page: 1 of 1

Laboratory: BC Laboratories, Inc.

Reviewer: ATL

2nd Reviewer: 

METHOD: (Analyte) Alkalinity (SM2320B), Chloride, Nitrate-N, Sulfate (EPA Method 300.0), Nitrite-N (EPA Method 353.2), Hexavalent Chromium (EPA Method 218.6), Orthophosphate-P (EPA Method 365.1), Perchlorate (EPA Method 314.0), pH (EPA Method 150.1), TDS (EPA Method 160.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|------|--|
| I. | Sample receipt/Technical holding times | A/SW | |
| II | Initial calibration | A | |
| III. | Calibration verification | A | |
| IV | Laboratory Blanks | SW | |
| V | Field blanks | N | |
| VI. | Matrix Spike/Matrix Spike Duplicates | A | (10,11), (13,14) |
| VII. | Duplicate sample analysis | A | 12,15 |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Field duplicates | SW | (6,8), (1,9) |
| X. | Sample result verification | A | Not reviewed for Level III validation. |
| XI. | Overall assessment of data | A | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|----|--------------|---------------|--------|----------|
| 1 | MW-1 | 2018328-02 | Water | 06/25/20 |
| 2 | MW-6** | 2018328-03** | Water | 06/25/20 |
| 3 | MW-7 | 2018328-04 | Water | 06/25/20 |
| 4 | MW-8** | 2018328-05** | Water | 06/25/20 |
| 5 | MW-9 | 2018328-06 | Water | 06/25/20 |
| 6 | MW-15 | 2018328-07 | Water | 06/25/20 |
| 7 | MW-16 | 2018328-08 | Water | 06/25/20 |
| 8 | Dup-7-2Q2020 | 2018328-09 | Water | 06/25/20 |
| 9 | Dup-8-2Q2020 | 2018328-10 | Water | 06/25/20 |
| 10 | MW-6MS | 2018328-03MS | Water | 06/25/20 |
| 11 | MW-6MSD | 2018328-03MSD | Water | 06/25/20 |
| 12 | MW-6DUP | 2018328-03DUP | Water | 06/25/20 |
| 13 | MW-8MS | 2018328-05MS | Water | 06/25/20 |
| 14 | MW-8MSD | 2018328-05MSD | Water | 06/25/20 |
| 15 | MW-8DUP | 2018328-05DUP | Water | 06/25/20 |
| 16 | | | | |

| METHOD: Inorganics | | | | |
|--|-----|----|----|----------|
| Validation Area | Yes | No | NA | Comments |
| I. Technical holding times | | | | |
| Were all technical holding times met? | | X | | |
| II. Calibration | | | | |
| Were all instruments calibrated at the required frequency? | X | | | |
| Were the proper number of standards used? | X | | | |
| Were all initial and continuing calibration verifications within the QC limits? | X | | | |
| Were all initial calibration correlation coefficients within limits as specified by the method? | X | | | |
| Were balance checks performed as required? | X | | | |
| III. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | X | | | |
| Was there contamination in the method blanks? | X | | | |
| Was there contamination in the initial and continuing calibration blanks? | X | | | |
| IV. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates | | | | |
| Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.) | X | | | |
| Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits? | X | | | |
| V. Laboratory Control Samples | | | | |
| Was a LCS analyzed for each batch in the SDG? | X | | | |
| Were the LCS recoveries and RPDs (if applicable) within QC limits? | X | | | |
| X. Sample Result Verification | | | | |
| Were all reporting limits adjusted to reflect sample dilutions? | X | | | |
| Were all soil samples dry weight corrected? | | | X | |
| XI. Overall Assessment of Data | | | | |
| Was the overall assessment of the data found to be acceptable? | X | | | |

| METHOD: Inorganics | | | | |
|--|-----|----|----|----------|
| Validation Area | Yes | No | NA | Comments |
| XII. Field Duplicates | | | | |
| Were field duplicates identified in this SDG? | X | | | |
| Were target analytes detected in the field duplicates? | X | | | |
| XIII. Field Blanks | | | | |
| Were field blanks identified in this SDG? | | X | | |
| Were target analytes detected in the field blanks? | | | X | |

Holding Time

METHOD: Inorganics

All samples were properly preserved and within the required holding time with the following exceptions:

| | | Method: EPA 150.1 Analyte: pH Holding Time: 48hrs | | | |
|-----------|---|---|--|-----------|--------|
| Sample ID | Sampling Date (change to CA time) | Analysis Date | Total Time from Collection to Analysis (hours) | Qualifier | Det/ND |
| 1 | 6/25/2020 12:53 | 6/29/2020 9:14 | 92.350 | J/UJ/P | det |
| 2 | 6/25/2020 9:00 | 6/29/2020 8:41 | 95.683 | J/UJ/P | det |
| 3 | 6/25/2020 10:43 | 6/29/2020 9:21 | 94.633 | J/UJ/P | det |
| 4 | 6/25/2020 9:59 | 6/29/2020 11:16 | 97.283 | J/UJ/P | det |
| 5 | 6/25/2020 12:30 | 6/29/2020 9:29 | 92.983 | J/UJ/P | det |
| 6 | 6/25/2020 11:49 | 6/29/2020 9:37 | 93.800 | J/UJ/P | det |
| 7 | 6/25/2020 11:15 | 6/29/2020 9:44 | 94.483 | J/UJ/P | det |
| 8 | 6/25/2020 11:54 | 6/29/2020 9:51 | 93.950 | J/UJ/P | det |
| 9 | 6/25/2020 13:03 | 6/29/2020 11:29 | 94.433 | J/UJ/P | det |
| | | | | | |

Preservation

| Sample ID | Preservation | Preservation Requirement (pH) | Qualifier | Det/ND |
|-----------|--------------|----------------------------------|-----------|--------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

VALIDATION FINDINGS WORKSHEET
Laboratory Blank Contamination (PB/ICB/CCB)

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 1,2,3, 5 to 8

| | | | | Sample Identification | | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | | |
| Cl | | 0.219 | 1.095 | | | | | | | | | | |
| SO4 | | 0.394 | 1.97 | | | | | | | | | | |

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 9

| | | | | Sample Identification | | | | | | | | | |
|---------|-----------|------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Analyte | PB (mg/L) | Maximum ICB/CCB (mg/L) | Action Level | | | | | | | | | | |
| Cl | | 0.176 | 0.88 | | | | | | | | | | |
| SO4 | | 0.389 | 1.945 | | | | | | | | | | |

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

Field Duplicates

Reviewer:

METHOD: Inorganics

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|------------------------|----------------------|---------|-----|---------------------------|
| | 6 | 8 | | |
| Alkalinity Bicarbonate | 160 | 150 | 6 | |
| Alkalinity Total | 130 | 120 | 8 | |
| Chloride | 26 | 29 | 11 | |
| Hexavalent Chromium | 0.00058 | 0.00058 | 0 | |
| Nitrate-N | 0.47 | 0.49 | 4 | |
| pH (pH unit) | 7.20 | 7.17 | 0 | |
| Sulfate | 29 | 27 | 7 | |
| Total Dissolved Solids | 270 | 270 | 0 | |

| Analyte | Concentration (mg/L) | | RPD | Qualifiers (Parents Only) |
|------------------------|----------------------|------|-----|---------------------------|
| | 1 | 9 | | |
| Alkalinity Bicarbonate | 280 | 280 | 0 | |
| Alkalinity Total | 230 | 230 | 0 | |
| Chloride | 29 | 28 | 4 | |
| Nitrate-N | 0.36 | 0.42 | 15 | |
| pH (pH unit) | 7.73 | 7.60 | 2 | |
| Sulfate | 57 | 58 | 2 | |
| Total Dissolved Solids | 370 | 340 | 8 | |

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 07/01/20

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 | FOUND Standard | TRUE Conc. (ug/L) | Area | Recalculated | Reported | Acceptable (Y/N) |
|--------------------------|---------|-------------------|----------------------|--------|---------------------|---------------------|---------------------|
| | | | | | r or r ² | r or r ² | |
| Initial calibration | ClO4 | s1 | 2 | 0.0022 | 0.9988 | 0.9987 | Y |
| | | s2 | 4 | 0.0042 | | | |
| | | s3 | 6 | 0.0065 | | | |
| | | s4 | 10 | 0.0115 | | | |
| | | s5 | 20 | 0.0219 | | | |
| Calibration verification | Cr6+ | 25.847 | 25 | | 103.388 | 103 | Y |
| Calibration verification | SO4 | 102.209 | 100 | | 102.209 | 101 | Y |
| Calibration verification | PO4-P | 0.5154 | 0.5 | | 103.08 | 103 | Y |

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: Inorganics

Percent recoveries (%R) for the laboratory control sample (LCS) and matrix spike (MS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

| Sample ID | Type of Analysis | Element | Found/S | True/D | Recalculated %R/RPD | Reported %R/RPD | Acceptable (Y/N) |
|-----------|------------------|------------|---------|---------|---------------------|-----------------|------------------|
| LCS | LCS | Alkalinity | 98.648 | 100 | 98.648 | 98.7 | Y |
| 10 | MS | NO2-N | 0.5266 | 0.52632 | 100.0531996 | 100 | Y |
| 15 | Duplicate | pH | 7.51 | 7.5 | 0.133244504 | 0.133 | Y |

METHOD: Inorganics

Analytes were recalculated and verified using the following equation:

Concentration = (Result from raw data x Final volume x Dilution factor) / (Percent solids (if applicable) x Initial weight or volume)

| Sample ID | Analyte | Raw Data (mg/L) | Dilution | Initial Weight/ Volume (ml) | Final Volume (ml) | Percent solids (%) | Reported Result (mg/L) | Recalculated Result (mg/L) | Acceptable (Y/N) |
|-----------|-----------------|-----------------|----------|--------------------------------|----------------------|-----------------------|---------------------------|-------------------------------|---------------------|
| 2 | pH (pH Units) | 3.56 | 1 | 50 | 50 | 100 | 3.56 | 3.56 | Y |
| 2 | TDS | 172 | 3.33 | 50 | 50 | 100 | 570 | 572.76 | Y |
| 2 | NO3-N | 7.322 | 1 | 20 | 20 | 100 | 7.4 | 7.322 | Y |
| 2 | ClO4- (ppb) | 1.818 | 1 | 20 | 20 | 100 | 1.6 | 1.818 | Y |
| 2 | NO2-N | -0.0015 | 1 | 20 | 20 | 100 | ND | -0.0015 | Y |
| 2 | Alk Bicarbonate | 0 | 1 | 50 | 50 | 100 | ND | 0 | Y |
| 4 | pH (pH Units) | 7.5 | 1 | 50 | 50 | 100 | 7.5 | 7.5 | Y |
| 4 | TDS | 149 | 2 | 50 | 50 | 100 | 300 | 298 | Y |
| 4 | Cr6+ | 0.000294 | 1 | 20 | 20 | 100 | 0.00029 | 0.000294 | Y |
| 4 | Cl | 23.848 | 1 | 20 | 20 | 100 | 24 | 23.848 | Y |
| 4 | ClO4- (ppb) | 0 | 1 | 20 | 20 | 100 | ND | 0 | Y |
| 4 | NO2-N | -0.0015 | 1 | 20 | 20 | 100 | ND | -0.0015 | Y |
| 4 | PO4-P | 0.0272 | 1 | 20 | 20 | 100 | 0.027 | 0.0272 | Y |
| 4 | Alk Total | 142.272 | 1 | 50 | 50 | 100 | 140 | 142.272 | Y |

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| Analytical Method | | EPA-150.1 | | | | | | | | | | |
|-------------------|---------------|---------------|-----------|--------|--------|--------|----------|----------|------|------|----------|--|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units | |
| Dup-7-2Q2020 | 2018328-09 | pH | 6/29/2020 | 7.17 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| Dup-8-2Q2020 | 2018328-10 | pH | 6/29/2020 | 7.6 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-1 | 2018328-02 | pH | 6/29/2020 | 7.73 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-15 | 2018328-07 | pH | 6/29/2020 | 7.2 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-16 | 2018328-08 | pH | 6/29/2020 | 7.78 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-6 | 2018328-03 | pH | 6/29/2020 | 3.56 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-7 | 2018328-04 | pH | 6/29/2020 | 7.55 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-8 | 2018328-05 | pH | 6/29/2020 | 7.5 | Y | y | v | J | 0.05 | 0.05 | pH Units | |
| MW-9 | 2018328-06 | pH | 6/29/2020 | 7.22 | Y | y | v | J | 0.05 | 0.05 | pH Units | |

| Analytical Method | | EPA-160.1 | | | | | | | | | | |
|-------------------|---------------|--------------------------------|-----------|--------|--------|--------|----------|----------|----|-----|-------|--|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units | |
| Dup-7-2Q2020 | 2018328-09 | Total Dissolved Solids @ 180 C | 6/29/2020 | 270 | Y | y | v | | 20 | 10 | mg/L | |
| Dup-8-2Q2020 | 2018328-10 | Total Dissolved Solids @ 180 C | 6/29/2020 | 340 | Y | y | v | | 20 | 10 | mg/L | |
| MW-1 | 2018328-02 | Total Dissolved Solids @ 180 C | 6/29/2020 | 370 | Y | y | v | | 20 | 10 | mg/L | |
| MW-15 | 2018328-07 | Total Dissolved Solids @ 180 C | 6/29/2020 | 270 | Y | y | v | | 20 | 10 | mg/L | |
| MW-16 | 2018328-08 | Total Dissolved Solids @ 180 C | 6/29/2020 | 400 | Y | y | v | | 20 | 10 | mg/L | |
| MW-6 | 2018328-03 | Total Dissolved Solids @ 180 C | 6/29/2020 | 570 | Y | y | v | | 33 | 17 | mg/L | |
| MW-7 | 2018328-04 | Total Dissolved Solids @ 180 C | 6/29/2020 | 440 | Y | y | v | | 33 | 17 | mg/L | |
| MW-8 | 2018328-05 | Total Dissolved Solids @ 180 C | 6/29/2020 | 300 | Y | y | v | | 20 | 10 | mg/L | |
| MW-9 | 2018328-06 | Total Dissolved Solids @ 180 C | 6/29/2020 | 300 | Y | y | v | | 20 | 10 | mg/L | |

| Analytical Method | | EPA-200.7 | | | | | | | | | | |
|-------------------|---------------|------------------------|-----------|--------|--------|--------|----------|----------|----|-----|-------|--|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units | |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Iron | 6/30/2020 | 41 | Y | y | v j | | 50 | 30 | ug/L | |

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| Analytical Method | | EPA-200.7 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|-------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Potassium | 6/30/2020 | 2.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Sodium | 6/30/2020 | 24 | Y | y | v | | 0.50 | 0.051 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Calcium | 6/30/2020 | 47 | Y | y | v | | 0.10 | 0.014 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Magnesium | 6/30/2020 | 15 | Y | y | v | | 0.050 | 0.019 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Potassium | 6/30/2020 | 3.3 | Y | y | v | | 1.0 | 0.10 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Iron | 6/30/2020 | 32 | Y | y | v j | | 50 | 30 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Sodium | 6/30/2020 | 31 | Y | y | v | | 0.50 | 0.051 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Calcium | 6/30/2020 | 73 | Y | y | v | | 0.10 | 0.014 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Magnesium | 6/30/2020 | 22 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-1 | 2018328-02 | Total Recoverable Magnesium | 6/30/2020 | 23 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-1 | 2018328-02 | Total Recoverable Sodium | 6/30/2020 | 33 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-1 | 2018328-02 | Total Recoverable Iron | 6/30/2020 | 50 | Y | n | u | | 50 | 30 | ug/L |
| MW-1 | 2018328-02 | Total Recoverable Calcium | 6/30/2020 | 76 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-1 | 2018328-02 | Total Recoverable Potassium | 6/30/2020 | 3.5 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-15 | 2018328-07 | Total Recoverable Iron | 6/30/2020 | 45 | Y | y | v j | | 50 | 30 | ug/L |
| MW-15 | 2018328-07 | Total Recoverable Potassium | 6/30/2020 | 2.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-15 | 2018328-07 | Total Recoverable Sodium | 6/30/2020 | 25 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-15 | 2018328-07 | Total Recoverable Calcium | 6/30/2020 | 50 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-15 | 2018328-07 | Total Recoverable Magnesium | 6/30/2020 | 16 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-7 | 2018328-04 | Total Recoverable Calcium | 6/30/2020 | 67 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-7 | 2018328-04 | Total Recoverable Iron | 6/30/2020 | 330 | Y | y | v | | 50 | 30 | ug/L |
| MW-7 | 2018328-04 | Total Recoverable Potassium | 6/30/2020 | 3.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-7 | 2018328-04 | Total Recoverable Sodium | 6/30/2020 | 41 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-7 | 2018328-04 | Total Recoverable Magnesium | 6/30/2020 | 22 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-8 | 2018328-05 | Total Recoverable Iron | 6/30/2020 | 44 | Y | y | v j | | 50 | 30 | ug/L |

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| Analytical Method | | EPA-200.7 | | | | | | | | | |
|--------------------------|----------------------|-----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-8 | 2018328-05 | Total Recoverable Magnesium | 6/30/2020 | 16 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-8 | 2018328-05 | Total Recoverable Potassium | 6/30/2020 | 2.7 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-8 | 2018328-05 | Total Recoverable Sodium | 6/30/2020 | 24 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-8 | 2018328-05 | Total Recoverable Calcium | 6/30/2020 | 47 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-9 | 2018328-06 | Total Recoverable Calcium | 6/30/2020 | 53 | Y | y | v | | 0.10 | 0.014 | mg/L |
| MW-9 | 2018328-06 | Total Recoverable Potassium | 6/30/2020 | 2.8 | Y | y | v | | 1.0 | 0.10 | mg/L |
| MW-9 | 2018328-06 | Total Recoverable Sodium | 6/30/2020 | 21 | Y | y | v | | 0.50 | 0.051 | mg/L |
| MW-9 | 2018328-06 | Total Recoverable Magnesium | 6/30/2020 | 17 | Y | y | v | | 0.050 | 0.019 | mg/L |
| MW-9 | 2018328-06 | Total Recoverable Iron | 6/30/2020 | 56 | Y | y | v | | 50 | 30 | ug/L |

| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Arsenic | 6/30/2020 | 0.86 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Total Recoverable Chromium | 6/30/2020 | 1.1 | Y | y | v j | U | 3.0 | 0.50 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Chromium | 6/30/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Total Recoverable Arsenic | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-1 | 2018328-02 | Total Recoverable Arsenic | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-1 | 2018328-02 | Total Recoverable Chromium | 6/30/2020 | 3 | Y | n | u | | 3.0 | 0.50 | ug/L |
| MW-1 | 2018328-02 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-15 | 2018328-07 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-15 | 2018328-07 | Total Recoverable Chromium | 6/30/2020 | 0.98 | Y | y | v j | U | 3.0 | 0.50 | ug/L |
| MW-15 | 2018328-07 | Total Recoverable Arsenic | 6/30/2020 | 0.88 | Y | y | v j | | 2.0 | 0.70 | ug/L |
| MW-7 | 2018328-04 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |

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| Analytical Method | | EPA-200.8 | | | | | | | | | |
|--------------------------|----------------------|----------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-7 | 2018328-04 | Total Recoverable Chromium | 6/30/2020 | 37 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-7 | 2018328-04 | Total Recoverable Arsenic | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-8 | 2018328-05 | Total Recoverable Chromium | 6/30/2020 | 6 | Y | y | v | | 3.0 | 0.50 | ug/L |
| MW-8 | 2018328-05 | Total Recoverable Arsenic | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-8 | 2018328-05 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | ug/L |
| MW-9 | 2018328-06 | Total Recoverable Arsenic | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.70 | ug/L |
| MW-9 | 2018328-06 | Total Recoverable Chromium | 6/30/2020 | 2.2 | Y | y | v j | U | 3.0 | 0.50 | ug/L |
| MW-9 | 2018328-06 | Total Recoverable Lead | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.10 | 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-7-2Q2020 | 2018328-09 | Hexavalent Chromium | 6/30/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Hexavalent Chromium | 6/30/2020 | 0.0002 | Y | n | u | | 0.0002 | 0.0000 | mg/L |
| MW-1 | 2018328-02 | Hexavalent Chromium | 6/30/2020 | ##### | Y | n | u | | 0.0004 | 0.0000 | mg/L |
| MW-15 | 2018328-07 | Hexavalent Chromium | 6/30/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-7 | 2018328-04 | Hexavalent Chromium | 6/30/2020 | 0.0012 | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-8 | 2018328-05 | Hexavalent Chromium | 6/30/2020 | ##### | Y | y | v | | 0.0002 | 0.0000 | mg/L |
| MW-9 | 2018328-06 | Hexavalent Chromium | 6/30/2020 | ##### | 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 |
| Dup-7-2Q2020 | 2018328-09 | Chloride | 6/26/2020 | 29 | Y | y | v | | 0.50 | 0.13 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Nitrate as N | 6/26/2020 | 0.49 | Y | y | v | | 0.10 | 0.024 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Sulfate | 6/26/2020 | 27 | Y | y | v | | 1.0 | 0.14 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Nitrate as N | 6/26/2020 | 0.42 | Y | y | v | | 0.10 | 0.024 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Chloride | 6/26/2020 | 28 | Y | y | v | | 0.50 | 0.13 | mg/L |

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| Analytical Method | | EPA-300.0 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-8-2Q2020 | 2018328-10 | Sulfate | 6/26/2020 | 58 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-1 | 2018328-02 | Chloride | 6/26/2020 | 29 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-1 | 2018328-02 | Sulfate | 6/26/2020 | 57 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-1 | 2018328-02 | Nitrate as N | 6/26/2020 | 0.36 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-15 | 2018328-07 | Chloride | 6/26/2020 | 26 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-15 | 2018328-07 | Nitrate as N | 6/26/2020 | 0.47 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-15 | 2018328-07 | Sulfate | 6/26/2020 | 29 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-16 | 2018328-08 | Chloride | 6/26/2020 | 59 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-16 | 2018328-08 | Nitrate as N | 6/26/2020 | 1.7 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-16 | 2018328-08 | Sulfate | 6/26/2020 | 45 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-6 | 2018328-03 | Sulfate | 6/26/2020 | 100 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-6 | 2018328-03 | Nitrate as N | 6/26/2020 | 7.4 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-6 | 2018328-03 | Chloride | 6/26/2020 | 110 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-7 | 2018328-04 | Sulfate | 6/26/2020 | 49 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-7 | 2018328-04 | Nitrate as N | 6/26/2020 | 1.2 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-7 | 2018328-04 | Chloride | 6/26/2020 | 73 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-8 | 2018328-05 | Chloride | 6/26/2020 | 24 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-8 | 2018328-05 | Nitrate as N | 6/26/2020 | 1.1 | Y | y | v | | 0.10 | 0.024 | mg/L |
| MW-8 | 2018328-05 | Sulfate | 6/26/2020 | 38 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-9 | 2018328-06 | Chloride | 6/26/2020 | 19 | Y | y | v | | 0.50 | 0.13 | mg/L |
| MW-9 | 2018328-06 | Sulfate | 6/26/2020 | 37 | Y | y | v | | 1.0 | 0.14 | mg/L |
| MW-9 | 2018328-06 | Nitrate as N | 6/26/2020 | 2.2 | Y | y | v | | 0.10 | 0.024 | 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 |

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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 |
| Dup-7-2Q2020 | 2018328-09 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-1 | 2018328-02 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-15 | 2018328-07 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-16 | 2018328-08 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-6 | 2018328-03 | Perchlorate | 7/2/2020 | 1.6 | Y | y | v j | | 4.0 | 0.81 | ug/L |
| MW-7 | 2018328-04 | Perchlorate | 7/3/2020 | 49 | Y | y | v | | 20 | 4.0 | ug/L |
| MW-8 | 2018328-05 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |
| MW-9 | 2018328-06 | Perchlorate | 7/2/2020 | 4 | Y | n | u | | 4.0 | 0.81 | ug/L |

| Analytical Method | | EPA-353.2 | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-1 | 2018328-02 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-15 | 2018328-07 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-16 | 2018328-08 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-6 | 2018328-03 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-7 | 2018328-04 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-8 | 2018328-05 | Nitrite as N | 6/26/2020 | 0.05 | Y | n | u | | 0.050 | 0.010 | mg/L |
| MW-9 | 2018328-06 | Nitrite as N | 6/26/2020 | 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 | 2018328-08 | ortho-Phosphate as P | 6/26/2020 | 0.27 | Y | y | v | | 0.050 | 0.017 | mg/L |
| MW-7 | 2018328-04 | ortho-Phosphate as P | 6/26/2020 | 0.027 | Y | y | v j | | 0.050 | 0.017 | mg/L |

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| 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-8 | 2018328-05 | ortho-Phosphate as P | 6/26/2020 | 0.027 | Y | y | v j | | 0.050 | 0.017 | mg/L |

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Chloroform | 6/30/2020 | 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-7-2Q2020 | 2018328-09 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-7-2Q2020 | 2018328-09 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |

SDG: 2018328

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-7-2Q2020 | 2018328-09 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |

SDG: 2018328

| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-8-2Q2020 | 2018328-10 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Pentachloroethane | 6/30/2020 | 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 |
| Dup-8-2Q2020 | 2018328-10 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-8-2Q2020 | 2018328-10 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Chloroform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-8-2Q2020 | 2018328-10 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| Dup-8-2Q2020 | 2018328-10 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-1 | 2018328-02 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-1 | 2018328-02 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-1 | 2018328-02 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-1 | 2018328-02 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-1 | 2018328-02 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-1 | 2018328-02 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-1 | 2018328-02 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-1 | 2018328-02 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-1 | 2018328-02 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-1 | 2018328-02 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-1 | 2018328-02 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | Benzene | 6/30/2020 | 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-1 | 2018328-02 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-1 | 2018328-02 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-1 | 2018328-02 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-1 | 2018328-02 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-1 | 2018328-02 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-1 | 2018328-02 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-1 | 2018328-02 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-1 | 2018328-02 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-1 | 2018328-02 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-1 | 2018328-02 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-1 | 2018328-02 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-1 | 2018328-02 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-1 | 2018328-02 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-1 | 2018328-02 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-1 | 2018328-02 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-1 | 2018328-02 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-1 | 2018328-02 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-1 | 2018328-02 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-1 | 2018328-02 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-1 | 2018328-02 | t-Amyl Methyl ether | 6/30/2020 | 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-1 | 2018328-02 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-1 | 2018328-02 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-1 | 2018328-02 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-1 | 2018328-02 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-1 | 2018328-02 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-1 | 2018328-02 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-1 | 2018328-02 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-1 | 2018328-02 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-1 | 2018328-02 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-1 | 2018328-02 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-1 | 2018328-02 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-1 | 2018328-02 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-1 | 2018328-02 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-1 | 2018328-02 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-1 | 2018328-02 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-1 | 2018328-02 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-1 | 2018328-02 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-1 | 2018328-02 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-1 | 2018328-02 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-1 | 2018328-02 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-1 | 2018328-02 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-1 | 2018328-02 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-1 | 2018328-02 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | Chlorobenzene | 6/30/2020 | 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-1 | 2018328-02 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-1 | 2018328-02 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-1 | 2018328-02 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-1 | 2018328-02 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-1 | 2018328-02 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-1 | 2018328-02 | Chloroform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-1 | 2018328-02 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-1 | 2018328-02 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-1 | 2018328-02 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-1 | 2018328-02 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-1 | 2018328-02 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-1 | 2018328-02 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-1 | 2018328-02 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-15 | 2018328-07 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-15 | 2018328-07 | Chloroform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-15 | 2018328-07 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-15 | 2018328-07 | Chloromethane | 6/30/2020 | 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-15 | 2018328-07 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-15 | 2018328-07 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-15 | 2018328-07 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-15 | 2018328-07 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-15 | 2018328-07 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-15 | 2018328-07 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-15 | 2018328-07 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-15 | 2018328-07 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-15 | 2018328-07 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-15 | 2018328-07 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-15 | 2018328-07 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-15 | 2018328-07 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-15 | 2018328-07 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-15 | 2018328-07 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-15 | 2018328-07 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-15 | 2018328-07 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-15 | 2018328-07 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-15 | 2018328-07 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-15 | 2018328-07 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-15 | 2018328-07 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-15 | 2018328-07 | 2-Chlorotoluene | 6/30/2020 | 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-15 | 2018328-07 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-15 | 2018328-07 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-15 | 2018328-07 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-15 | 2018328-07 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-15 | 2018328-07 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-15 | 2018328-07 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-15 | 2018328-07 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-15 | 2018328-07 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-15 | 2018328-07 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-15 | 2018328-07 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-15 | 2018328-07 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-15 | 2018328-07 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-15 | 2018328-07 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-15 | 2018328-07 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-15 | 2018328-07 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-15 | 2018328-07 | 1,3-Dichlorobenzene | 6/30/2020 | 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-15 | 2018328-07 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-15 | 2018328-07 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-15 | 2018328-07 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-15 | 2018328-07 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-15 | 2018328-07 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-15 | 2018328-07 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-15 | 2018328-07 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-15 | 2018328-07 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-15 | 2018328-07 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-15 | 2018328-07 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-15 | 2018328-07 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-15 | 2018328-07 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-15 | 2018328-07 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-15 | 2018328-07 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-15 | 2018328-07 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-15 | 2018328-07 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-15 | 2018328-07 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-15 | 2018328-07 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-15 | 2018328-07 | Hexachlorobutadiene | 6/30/2020 | 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-15 | 2018328-07 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-15 | 2018328-07 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-16 | 2018328-08 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-16 | 2018328-08 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-16 | 2018328-08 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-16 | 2018328-08 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-16 | 2018328-08 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-16 | 2018328-08 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-16 | 2018328-08 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-16 | 2018328-08 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-16 | 2018328-08 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-16 | 2018328-08 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-16 | 2018328-08 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-16 | 2018328-08 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-16 | 2018328-08 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-16 | 2018328-08 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | 1,4-Dichlorobenzene | 6/30/2020 | 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 | 2018328-08 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-16 | 2018328-08 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-16 | 2018328-08 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-16 | 2018328-08 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-16 | 2018328-08 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-16 | 2018328-08 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-16 | 2018328-08 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-16 | 2018328-08 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-16 | 2018328-08 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-16 | 2018328-08 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-16 | 2018328-08 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-16 | 2018328-08 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-16 | 2018328-08 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-16 | 2018328-08 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-16 | 2018328-08 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-16 | 2018328-08 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-16 | 2018328-08 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-16 | 2018328-08 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-16 | 2018328-08 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-16 | 2018328-08 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-16 | 2018328-08 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-16 | 2018328-08 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-16 | 2018328-08 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-16 | 2018328-08 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-16 | 2018328-08 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-16 | 2018328-08 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-16 | 2018328-08 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-16 | 2018328-08 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-16 | 2018328-08 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-16 | 2018328-08 | Carbon tetrachloride | 6/30/2020 | 0.35 | Y | y | v j | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-16 | 2018328-08 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-16 | 2018328-08 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-16 | 2018328-08 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-16 | 2018328-08 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-16 | 2018328-08 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-16 | 2018328-08 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-16 | 2018328-08 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-16 | 2018328-08 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-16 | 2018328-08 | Chloroform | 6/30/2020 | 1.2 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-16 | 2018328-08 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-16 | 2018328-08 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-16 | 2018328-08 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-16 | 2018328-08 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-16 | 2018328-08 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-16 | 2018328-08 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-16 | 2018328-08 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-16 | 2018328-08 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-16 | 2018328-08 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-16 | 2018328-08 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-16 | 2018328-08 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-16 | 2018328-08 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-16 | 2018328-08 | Bromodichloromethane | 6/30/2020 | 0.34 | Y | y | v j | | 0.50 | 0.20 | ug/L |
| MW-16 | 2018328-08 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-6 | 2018328-03 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-6 | 2018328-03 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-6 | 2018328-03 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-6 | 2018328-03 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-6 | 2018328-03 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-6 | 2018328-03 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-6 | 2018328-03 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-6 | 2018328-03 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|---------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-6 | 2018328-03 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-6 | 2018328-03 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-6 | 2018328-03 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-6 | 2018328-03 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-6 | 2018328-03 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-6 | 2018328-03 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-6 | 2018328-03 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-6 | 2018328-03 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-6 | 2018328-03 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-6 | 2018328-03 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-6 | 2018328-03 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-6 | 2018328-03 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-6 | 2018328-03 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-6 | 2018328-03 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-6 | 2018328-03 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-6 | 2018328-03 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-6 | 2018328-03 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | 1,3-Dichlorobenzene | 6/30/2020 | 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-6 | 2018328-03 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-6 | 2018328-03 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-6 | 2018328-03 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-6 | 2018328-03 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-6 | 2018328-03 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | Chloroform | 6/30/2020 | 0.48 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-6 | 2018328-03 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-6 | 2018328-03 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-6 | 2018328-03 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-6 | 2018328-03 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-6 | 2018328-03 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-6 | 2018328-03 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-6 | 2018328-03 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-6 | 2018328-03 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-6 | 2018328-03 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-6 | 2018328-03 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-6 | 2018328-03 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-6 | 2018328-03 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-6 | 2018328-03 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | 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-6 | 2018328-03 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-6 | 2018328-03 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-6 | 2018328-03 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-6 | 2018328-03 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-6 | 2018328-03 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-6 | 2018328-03 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-6 | 2018328-03 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-6 | 2018328-03 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-6 | 2018328-03 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-6 | 2018328-03 | Tetrachloroethene | 6/30/2020 | 0.44 | Y | y | v j | | 0.50 | 0.23 | ug/L |
| MW-6 | 2018328-03 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-6 | 2018328-03 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-6 | 2018328-03 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-6 | 2018328-03 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-6 | 2018328-03 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-6 | 2018328-03 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-6 | 2018328-03 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-6 | 2018328-03 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-6 | 2018328-03 | Trichloroethene | 6/30/2020 | 2.1 | Y | y | v | | 0.50 | 0.19 | ug/L |
| MW-6 | 2018328-03 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-6 | 2018328-03 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-6 | 2018328-03 | 1,2,4-Trichlorobenzene | 6/30/2020 | 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-6 | 2018328-03 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-7 | 2018328-04 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-7 | 2018328-04 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-7 | 2018328-04 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-7 | 2018328-04 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-7 | 2018328-04 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-7 | 2018328-04 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-7 | 2018328-04 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-7 | 2018328-04 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-7 | 2018328-04 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-7 | 2018328-04 | Chloroform | 6/30/2020 | 6 | Y | y | v | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-7 | 2018328-04 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-7 | 2018328-04 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-7 | 2018328-04 | Bromodichloromethane | 6/30/2020 | 0.22 | Y | y | v j | | 0.50 | 0.20 | ug/L |
| MW-7 | 2018328-04 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-7 | 2018328-04 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-7 | 2018328-04 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-7 | 2018328-04 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-7 | 2018328-04 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-7 | 2018328-04 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-7 | 2018328-04 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-7 | 2018328-04 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-7 | 2018328-04 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-7 | 2018328-04 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-7 | 2018328-04 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-7 | 2018328-04 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-7 | 2018328-04 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-7 | 2018328-04 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-7 | 2018328-04 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-7 | 2018328-04 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-7 | 2018328-04 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-7 | 2018328-04 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-7 | 2018328-04 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-7 | 2018328-04 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-7 | 2018328-04 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-7 | 2018328-04 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-7 | 2018328-04 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-7 | 2018328-04 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-7 | 2018328-04 | Tetrahydrofuran | 6/30/2020 | 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-7 | 2018328-04 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-7 | 2018328-04 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-7 | 2018328-04 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-7 | 2018328-04 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-7 | 2018328-04 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-7 | 2018328-04 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-7 | 2018328-04 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-7 | 2018328-04 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-7 | 2018328-04 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-7 | 2018328-04 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-7 | 2018328-04 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-7 | 2018328-04 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-7 | 2018328-04 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-7 | 2018328-04 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-7 | 2018328-04 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-7 | 2018328-04 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-7 | 2018328-04 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-7 | 2018328-04 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-7 | 2018328-04 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-7 | 2018328-04 | 1,3,5-Trimethylbenzene | 6/30/2020 | 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-7 | 2018328-04 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-7 | 2018328-04 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-7 | 2018328-04 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-7 | 2018328-04 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-7 | 2018328-04 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-7 | 2018328-04 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-7 | 2018328-04 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-7 | 2018328-04 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-7 | 2018328-04 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-7 | 2018328-04 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-8 | 2018328-05 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-8 | 2018328-05 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-8 | 2018328-05 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-8 | 2018328-05 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-8 | 2018328-05 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-8 | 2018328-05 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-8 | 2018328-05 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-8 | 2018328-05 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-8 | 2018328-05 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 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-8 | 2018328-05 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-8 | 2018328-05 | Trichlorofluoromethane | 6/30/2020 | 0.2 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-8 | 2018328-05 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-8 | 2018328-05 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-8 | 2018328-05 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-8 | 2018328-05 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| MW-8 | 2018328-05 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-8 | 2018328-05 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-8 | 2018328-05 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-8 | 2018328-05 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-8 | 2018328-05 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-8 | 2018328-05 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-8 | 2018328-05 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-8 | 2018328-05 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-8 | 2018328-05 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-8 | 2018328-05 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-8 | 2018328-05 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-8 | 2018328-05 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-8 | 2018328-05 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-8 | 2018328-05 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |

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| Analytical Method | | EPA-524.2 | | | | | | | | | |
|-------------------|---------------|-----------------------------|-----------|--------|--------|--------|----------|----------|------|-------|-------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-8 | 2018328-05 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-8 | 2018328-05 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-8 | 2018328-05 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-8 | 2018328-05 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-8 | 2018328-05 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-8 | 2018328-05 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-8 | 2018328-05 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-8 | 2018328-05 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-8 | 2018328-05 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-8 | 2018328-05 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-8 | 2018328-05 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-8 | 2018328-05 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-8 | 2018328-05 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-8 | 2018328-05 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-8 | 2018328-05 | Chloroform | 6/30/2020 | 0.31 | Y | y | v j | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-8 | 2018328-05 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-8 | 2018328-05 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-8 | 2018328-05 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-8 | 2018328-05 | Bromodichloromethane | 6/30/2020 | 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-8 | 2018328-05 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-8 | 2018328-05 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-8 | 2018328-05 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-8 | 2018328-05 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-8 | 2018328-05 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-8 | 2018328-05 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-8 | 2018328-05 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-8 | 2018328-05 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-8 | 2018328-05 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-8 | 2018328-05 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-8 | 2018328-05 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-8 | 2018328-05 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-8 | 2018328-05 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-8 | 2018328-05 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-8 | 2018328-05 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-8 | 2018328-05 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-8 | 2018328-05 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-8 | 2018328-05 | Ethylbenzene | 6/30/2020 | 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-9 | 2018328-06 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-9 | 2018328-06 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| MW-9 | 2018328-06 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-9 | 2018328-06 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| MW-9 | 2018328-06 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-9 | 2018328-06 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-9 | 2018328-06 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| MW-9 | 2018328-06 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-9 | 2018328-06 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| MW-9 | 2018328-06 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-9 | 2018328-06 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-9 | 2018328-06 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-9 | 2018328-06 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-9 | 2018328-06 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| MW-9 | 2018328-06 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-9 | 2018328-06 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-9 | 2018328-06 | Pentachloroethane | 6/30/2020 | 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-9 | 2018328-06 | tert-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-9 | 2018328-06 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-9 | 2018328-06 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-9 | 2018328-06 | Methyl acrylate | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-9 | 2018328-06 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-9 | 2018328-06 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-9 | 2018328-06 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| MW-9 | 2018328-06 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-9 | 2018328-06 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| MW-9 | 2018328-06 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |
| MW-9 | 2018328-06 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| MW-9 | 2018328-06 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| MW-9 | 2018328-06 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| MW-9 | 2018328-06 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| MW-9 | 2018328-06 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| MW-9 | 2018328-06 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| MW-9 | 2018328-06 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| MW-9 | 2018328-06 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| MW-9 | 2018328-06 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-9 | 2018328-06 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| MW-9 | 2018328-06 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| MW-9 | 2018328-06 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| MW-9 | 2018328-06 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| MW-9 | 2018328-06 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | 1,2-Dichlorobenzene | 6/30/2020 | 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-9 | 2018328-06 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| MW-9 | 2018328-06 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-9 | 2018328-06 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| MW-9 | 2018328-06 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| MW-9 | 2018328-06 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| MW-9 | 2018328-06 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-9 | 2018328-06 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| MW-9 | 2018328-06 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-9 | 2018328-06 | Chloroform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-9 | 2018328-06 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| MW-9 | 2018328-06 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| MW-9 | 2018328-06 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-9 | 2018328-06 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| MW-9 | 2018328-06 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| MW-9 | 2018328-06 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| MW-9 | 2018328-06 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| MW-9 | 2018328-06 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | Hexachlorobutadiene | 6/30/2020 | 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-9 | 2018328-06 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| MW-9 | 2018328-06 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| MW-9 | 2018328-06 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| MW-9 | 2018328-06 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-9 | 2018328-06 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| MW-9 | 2018328-06 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| MW-9 | 2018328-06 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| MW-9 | 2018328-06 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-13-062520 | 2018328-01 | Styrene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-13-062520 | 2018328-01 | n-Propylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.12 | ug/L |
| TB-13-062520 | 2018328-01 | Naphthalene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-13-062520 | 2018328-01 | Methyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | Methylene chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-13-062520 | 2018328-01 | p-Isopropyltoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | cis-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1,1,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2,4-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | Hexachlorobutadiene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-13-062520 | 2018328-01 | Ethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | trans-1,3-Dichloropropene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |

SDG: 2018328

| 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-13-062520 | 2018328-01 | Isopropylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1,2,2-Tetrachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | Tetrachloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-13-062520 | 2018328-01 | Toluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2,3-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2,4-Trichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | 1,3,5-Trimethylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1,2-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-13-062520 | 2018328-01 | Trichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-13-062520 | 2018328-01 | 2,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-13-062520 | 2018328-01 | Carbon tetrachloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | Trichlorofluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2,3-Trichloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.78 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1,1-Trichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2-Dibromoethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-13-062520 | 2018328-01 | Chloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-13-062520 | 2018328-01 | 2-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | 4-Chlorotoluene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.093 | ug/L |
| TB-13-062520 | 2018328-01 | Bromobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | Vinyl chloride | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.18 | ug/L |
| TB-13-062520 | 2018328-01 | Chloroform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | Chloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | Chlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.14 | ug/L |
| TB-13-062520 | 2018328-01 | tert-Butylbenzene | 6/30/2020 | 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 |
| TB-13-062520 | 2018328-01 | n-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | Bromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-13-062520 | 2018328-01 | sec-Butylbenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2-Dibromo-3-chloropropane | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.89 | ug/L |
| TB-13-062520 | 2018328-01 | 1,3-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-13-062520 | 2018328-01 | Bromoform | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.46 | ug/L |
| TB-13-062520 | 2018328-01 | Dibromomethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.23 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.21 | ug/L |
| TB-13-062520 | 2018328-01 | 1,3-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.16 | ug/L |
| TB-13-062520 | 2018328-01 | 1,4-Dichlorobenzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | Dichlorodifluoromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2-Dichloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | 1,1-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-13-062520 | 2018328-01 | cis-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-13-062520 | 2018328-01 | trans-1,2-Dichloroethene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.17 | ug/L |
| TB-13-062520 | 2018328-01 | 1,2-Dichloropropane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.15 | ug/L |
| TB-13-062520 | 2018328-01 | Dibromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.22 | ug/L |
| TB-13-062520 | 2018328-01 | Methyl methacrylate | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.2 | ug/L |
| TB-13-062520 | 2018328-01 | Bromodichloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.20 | ug/L |
| TB-13-062520 | 2018328-01 | Bromochloromethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.27 | ug/L |
| TB-13-062520 | 2018328-01 | Benzene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-13-062520 | 2018328-01 | Acetone | 6/30/2020 | 10 | Y | n | u | | 10 | 6.6 | ug/L |
| TB-13-062520 | 2018328-01 | Nitrobenzene | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| TB-13-062520 | 2018328-01 | Methyl acrylate | 6/30/2020 | 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 |
| TB-13-062520 | 2018328-01 | 1,1-Dichloropropanone | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| TB-13-062520 | 2018328-01 | 1-Chlorobutane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| TB-13-062520 | 2018328-01 | Chloroacetonitrile | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| TB-13-062520 | 2018328-01 | o-Xylene | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.13 | ug/L |
| TB-13-062520 | 2018328-01 | p- & m-Xylenes | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.34 | ug/L |
| TB-13-062520 | 2018328-01 | Tetrahydrofuran | 6/30/2020 | 20 | Y | n | u | | 20 | 5.2 | ug/L |
| TB-13-062520 | 2018328-01 | Pentachloroethane | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 0.63 | ug/L |
| TB-13-062520 | 2018328-01 | 2-Nitropropane | 6/30/2020 | 0 | Y | y | v | | | | ug/L |
| TB-13-062520 | 2018328-01 | Diethyl ether | 6/30/2020 | 2 | Y | n | u | | 2.0 | 0.33 | ug/L |
| TB-13-062520 | 2018328-01 | Acrylonitrile | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.5 | ug/L |
| TB-13-062520 | 2018328-01 | Allyl chloride | 6/30/2020 | 5 | Y | n | u | | 5.0 | 0.47 | ug/L |
| TB-13-062520 | 2018328-01 | t-Amyl Methyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.19 | ug/L |
| TB-13-062520 | 2018328-01 | t-Butyl alcohol | 6/30/2020 | 10 | Y | n | u | | 10 | 9.4 | ug/L |
| TB-13-062520 | 2018328-01 | Propionitrile | 6/30/2020 | 20 | Y | n | u | | 20 | 6.2 | ug/L |
| TB-13-062520 | 2018328-01 | trans-1,4-Dichloro-2-butene | 6/30/2020 | 5 | Y | n | u | | 5.0 | 1.8 | ug/L |
| TB-13-062520 | 2018328-01 | Methyl isobutyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 2.4 | ug/L |
| TB-13-062520 | 2018328-01 | Ethyl methacrylate | 6/30/2020 | 4 | Y | n | u | | 4.0 | 1.3 | ug/L |
| TB-13-062520 | 2018328-01 | Ethyl t-butyl ether | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.32 | ug/L |
| TB-13-062520 | 2018328-01 | Hexachloroethane | 6/30/2020 | 0.5 | Y | n | u | | 0.50 | 0.11 | ug/L |
| TB-13-062520 | 2018328-01 | 2-Hexanone | 6/30/2020 | 10 | Y | n | u | | 10 | 5.0 | ug/L |
| TB-13-062520 | 2018328-01 | Methacrylonitrile | 6/30/2020 | 10 | Y | n | u | | 10 | 2.3 | ug/L |
| TB-13-062520 | 2018328-01 | Methyl ethyl ketone | 6/30/2020 | 10 | Y | n | u | | 10 | 3.3 | ug/L |
| TB-13-062520 | 2018328-01 | Methyl iodide | 6/30/2020 | 2 | Y | n | u | UJ | 2.0 | 1.1 | ug/L |
| TB-13-062520 | 2018328-01 | Carbon disulfide | 6/30/2020 | 1 | Y | n | u | | 1.0 | 0.48 | ug/L |

SDG: 2018328

| Analytical Method | | EPA-8270C | | | | | | | | | |
|--------------------------|----------------------|----------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| MW-16 | 2018328-08 | 1,4-Dioxane | 7/7/2020 | 1 | Y | n | u | | 1.0 | 0.16 | ug/L |

| Analytical Method | | SM-2320B | | | | | | | | | |
|--------------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
| Dup-7-2Q2020 | 2018328-09 | Total Alkalinity as CaCO3 | 6/29/2020 | 120 | Y | y | v | | 4.1 | 4.1 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| Dup-7-2Q2020 | 2018328-09 | Bicarbonate | 6/29/2020 | 150 | Y | y | v | | 5.0 | 5.0 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Total Alkalinity as CaCO3 | 6/29/2020 | 230 | Y | y | v | | 4.1 | 4.1 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| Dup-8-2Q2020 | 2018328-10 | Bicarbonate | 6/29/2020 | 280 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-1 | 2018328-02 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-1 | 2018328-02 | Bicarbonate | 6/29/2020 | 280 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-1 | 2018328-02 | Total Alkalinity as CaCO3 | 6/29/2020 | 230 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-15 | 2018328-07 | Bicarbonate | 6/29/2020 | 160 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-15 | 2018328-07 | Total Alkalinity as CaCO3 | 6/29/2020 | 130 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-15 | 2018328-07 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-16 | 2018328-08 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-16 | 2018328-08 | Total Alkalinity as CaCO3 | 6/29/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-16 | 2018328-08 | Bicarbonate | 6/29/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-6 | 2018328-03 | Total Alkalinity as CaCO3 | 6/29/2020 | 4.1 | Y | n | u | | 4.1 | 4.1 | mg/L |
| MW-6 | 2018328-03 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-6 | 2018328-03 | Bicarbonate | 6/29/2020 | 5 | Y | n | u | | 5.0 | 5.0 | mg/L |
| MW-7 | 2018328-04 | Bicarbonate | 6/29/2020 | 210 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-7 | 2018328-04 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-7 | 2018328-04 | Total Alkalinity as CaCO3 | 6/29/2020 | 170 | Y | y | v | | 4.1 | 4.1 | mg/L |

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Analytical Method SM-2320B

| Sample ID | Lab Sample ID | Chemical Name | Anal Date | Result | Report | Detect | Lab Qual | Val Qual | RL | MDL | Units |
|------------------|----------------------|---------------------------|------------------|---------------|---------------|---------------|-----------------|-----------------|-----------|------------|--------------|
| MW-8 | 2018328-05 | Total Alkalinity as CaCO3 | 6/29/2020 | 140 | Y | y | v | | 4.1 | 4.1 | mg/L |
| MW-8 | 2018328-05 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-8 | 2018328-05 | Bicarbonate | 6/29/2020 | 170 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-9 | 2018328-06 | Carbonate | 6/29/2020 | 2.5 | Y | n | u | | 2.5 | 2.5 | mg/L |
| MW-9 | 2018328-06 | Bicarbonate | 6/29/2020 | 200 | Y | y | v | | 5.0 | 5.0 | mg/L |
| MW-9 | 2018328-06 | Total Alkalinity as CaCO3 | 6/29/2020 | 160 | Y | y | v | | 4.1 | 4.1 | mg/L |