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ANALYTICAL REPORT

Eurofins Eaton South Bend
110 S Hill Street
South Bend, IN 46617
Tel: (574)233-4777

Laboratory Job ID: 810-14575-1
Client Project/Site: Charleston Water System

For:
Charleston Water System
1104 Hanahan Road
Hanahan, South Carolina 29410

Attn: Rebecca M Thames

Authorized for release by:
3/7/2022 3:00:10 PM

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Table of Contents

Definitions/Glossary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 810-14575-1

Laboratory: Eurofins Eaton South Bend

Narrative

Job Narrative
810-14575-1

Comments
No additional comments.

Receipt
The sample was received on 2/11/2022 10:15 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6º C.

GC/MS VOA
Method 524.2: The bracketing CCV did not inject due to the needle jamming. The sample was A vial only and could not be reanalyzed.

Finished (810-14575-1)

Method 524.3: Finished (810-14575-1) and (810-14575-B-1 MS): Client-provided vials were clear glass, preserved with ascorbic acid and HCl. The method specifies that amber glass vials be used, preserved with ascorbic and maleic acids. Data impact is unknown. [Analytical Batch 810-12825]

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 525.2 Ext: The continuing calibration verification (CCV) associated with batch 810-13245 recovered above the upper control limit for Fluometuron 160% (Limits 5-150%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 525.2 Ext: The laboratory control sample (LCS) for preparation batch 810-13012 and analytical batch 810-13245 recovered outside control limits for the following analytes: Fluometuron 174% (Limits 2-160%). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The LCS was reanalyzed with similar results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 515.3: The continuing calibration verification (CCV) associated with batch 810-13246 recovered above the upper control limit (70-130%) for Chloramben at 186% and 2,4-DB at 149%. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 200.8: The continuing calibration verification (CCV) analyzed in 810-12959 was outside the method criteria of + 10 % but within + 15% for Lithium at 111%. As indicated in the reference method, this continuing calibration verification (CCV) will be used at the closing CCV and previous samples will not be reanalyzed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method L306: The continuing calibration verification (CCV) associated with batch 810-13122 recovered above the upper control limit for Oryzalin (135%, 70-130% limits). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data

Job ID: 810-14575-1 (Continued)

Laboratory: Eurofins Eaton South Bend (Continued)

have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Subcontract non-Sister
See attached subcontract report.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Methods Dioxin, EDC/PPCP/Hormone: These methods were subcontracted to Eurofins Eaton Analytical, Monrovia. The subcontract laboratory certifications are different from that of the facility issuing the final report.

Method Nitrosamines 9: This method was subcontracted to Eurofins Eaton Monrovia. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Lab Sample ID: 810-14575-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Dibromochloromethane	1.0		0.50		ug/L	1		524.2	Total/NA
Bromodichloromethane	0.96		0.50		ug/L	1		524.2	Total/NA
1,4-Dioxane	0.56		0.070		ug/L	1		522	Total/NA
Erucylamide	5.3		4.9		ug/L	1		525.2 Ext	Total/NA
Chromium, hexavalent	0.17		0.020		ug/L	1		218.6	Total/NA
Perchlorate	0.44		0.050		ug/L	1		331.0	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.4		1.9		ng/L	1		L402	Total/NA
Perfluoropentanoic acid (PFPeA)	8.8		1.9		ng/L	1		L402	Total/NA
Perfluorohexanoic acid (PFHxA)	7.7		1.9		ng/L	1		L402	Total/NA
Perfluorooctanoic acid (PFOA)	4.5		1.9		ng/L	1		L402	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.9		ng/L	1		L402	Total/NA
Perfluorobutanoic acid (PFBA)	5.6		4.8		ng/L	1		L402	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.8		1.9		ng/L	1		L402	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.0		1.9		ng/L	1		L402	Total/NA
Barium	13		2.0		ug/L	1		200.8	Total/NA
Strontium	44		2.0		ug/L	1		200.8	Total/NA
Boron	28		5.0		ug/L	1		200.8	Total/NA
Aluminum	73		2.0		ug/L	1		200.8	Total/NA
Manganese	3.9		2.0		ug/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Styrene	<0.50		0.50		ug/L			02/19/22 15:36	1
cis-1,3-Dichloropropylene	<0.50		0.50		ug/L			02/19/22 15:36	1
trans-1,3-Dichloropropylene	<0.50		0.50		ug/L			02/19/22 15:36	1
N-Propylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
n-Butylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
4-Chlorotoluene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,2-Dibromoethane (EDB)	<0.20		0.20		ug/L			02/19/22 15:36	1
Allyl chloride	<5.0		5.0		ug/L			02/19/22 15:36	1
1,2-Dichloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Acrylonitrile	<1.0		1.0		ug/L			02/19/22 15:36	1
Chloroacetonitrile	<5.0		5.0		ug/L			02/19/22 15:36	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/L			02/19/22 15:36	1
1,3,5-Trimethylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Bromobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Toluene	<0.50		0.50		ug/L			02/19/22 15:36	1
Chlorobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1-Chlorobutane	<5.0		5.0		ug/L			02/19/22 15:36	1
Tetrahydrofuran	<5.0		5.0		ug/L			02/19/22 15:36	1
trans-1,4-Dichloro-2-butylene	<5.0		5.0		ug/L			02/19/22 15:36	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Dibromochloromethane	**1.0**		0.50		ug/L			02/19/22 15:36	1
Tetrachloroethene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,3-Dichloropropane	<0.50		0.50		ug/L			02/19/22 15:36	1
cis-1,2-Dichloroethylene	<0.50		0.50		ug/L			02/19/22 15:36	1
trans-1,2-Dichloroethylene	<0.50		0.50		ug/L			02/19/22 15:36	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50		ug/L			02/19/22 15:36	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,2,3-Trimethylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Carbon tetrachloride	<0.50		0.50		ug/L			02/19/22 15:36	1
1,1-Dichloropropene	<0.50		0.50		ug/L			02/19/22 15:36	1
2-Hexanone	<5.0		5.0		ug/L			02/19/22 15:36	1
2,2-Dichloropropane	<0.50		0.50		ug/L			02/19/22 15:36	1
Ethyl ether	<2.0		2.0		ug/L			02/19/22 15:36	1
Chloroform	<0.50		0.50		ug/L			02/19/22 15:36	1
Hexachloroethane	<2.0		2.0		ug/L			02/19/22 15:36	1
Benzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Bromomethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Chloromethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Methyl iodide	<2.0		2.0		ug/L			02/19/22 15:36	1
Dibromomethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Bromochloromethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Chloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Vinyl chloride	<0.20		0.20		ug/L			02/19/22 15:36	1
Dichloromethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Carbon disulfide	<5.0		5.0		ug/L			02/19/22 15:36	1

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1
Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.50		0.50		ug/L			02/19/22 15:36	1
Bromodichloromethane	**0.96**		0.50		ug/L			02/19/22 15:36	1
1,1-Dichloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
1,1-Dichloroethene	<0.50		0.50		ug/L			02/19/22 15:36	1
Trichlorofluoromethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Dichlorodifluoromethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Pentachloroethane	<2.0		2.0		ug/L			02/19/22 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
1,2-Dichloropropane	<0.50		0.50		ug/L			02/19/22 15:36	1
2-Butanone (MEK)	<5.0		5.0		ug/L			02/19/22 15:36	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Trichloroethylene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Methyl methacrylate	<1.0		1.0		ug/L			02/19/22 15:36	1
1,2,3-Trichlorobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Hexachlorobutadiene	<0.50		0.50		ug/L			02/19/22 15:36	1
Naphthalene	<0.50		0.50		ug/L			02/19/22 15:36	1
o-Xylene	<0.50		0.50		ug/L			02/19/22 15:36	1
2-Chlorotoluene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,2,4-Trimethylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			02/19/22 15:36	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			02/19/22 15:36	1
Methyl acrylate	<1.0		1.0		ug/L			02/19/22 15:36	1
Ethyl methacrylate	<1.0		1.0		ug/L			02/19/22 15:36	1
tert-Butylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
Isopropylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
4-Isopropyltoluene	<0.50		0.50		ug/L			02/19/22 15:36	1
Propionitrile	<5.0		5.0		ug/L			02/19/22 15:36	1
sec-Butylbenzene	<0.50		0.50		ug/L			02/19/22 15:36	1
1,1-Dichloroacetone	<5.0		5.0		ug/L			02/19/22 15:36	1
2-Nitropropane	<2.0		2.0		ug/L			02/19/22 15:36	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			02/19/22 15:36	1
Xylenes, Total	<0.50		0.50		ug/L			02/19/22 15:36	1
Nitrobenzene	<5.0		5.0		ug/L			02/19/22 15:36	1
Methacrylonitrile	<5.0		5.0		ug/L			02/19/22 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/19/22 15:36*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*02/19/22 15:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*02/19/22 15:36*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*95*		*70 - 130*		*02/19/22 15:36*	*1*

Method: 524.3 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.0050		0.0050		ug/L			02/14/22 20:07	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		ug/L			02/14/22 20:07	1
1,2,3-Trichloropropane	<0.0050		0.0050		ug/L			02/14/22 20:07	1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
tert-Butyl methyl-d3 ether	*100*		*70 - 130*		*02/14/22 20:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/14/22 20:07*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*99*		*70 - 130*		*02/14/22 20:07*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.56**		0.070		ug/L		02/21/22 08:20	02/21/22 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*101*		*70 - 130*	*02/21/22 08:20*	*02/21/22 22:05*	*1*

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
1-Methylnaphthalene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,2',3',4,6-Pentachlorobiphenyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,2',4,4'-Tetrachlorobiphenyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,3-Dichlorobiphenyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,4,5-Trichlorobiphenyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,4-Dinitrotoluene	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
2,6-Dinitrotoluene	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
2-Chlorobiphenyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
2-Methylnaphthalene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
4,4'-DDD	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
4,4'-DDE	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
4,4'-DDT	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Acenaphthene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Acenaphthylene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Acetochlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Alachlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Aldrin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
alpha-Chlordane	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
alpha-BHC	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Ametryn	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Anilazine	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Anthracene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Aspon	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Atraton	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Atrazine	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Azinphos-ethyl	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Azinphos-methyl	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Bendiocarb	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Benfluralin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Benzo[a]anthracene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Benzo[a]pyrene	<0.019		0.019		ug/L		02/16/22 09:18	02/19/22 17:37	1
Benzo[b]fluoranthene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Benzo[g,h,i]perylene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Benzo[k]fluoranthene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1

Client Sample ID: Finished
Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1
Matrix: Drinking Water

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Bolstar	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Bromacil	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Butachlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Butylate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Butylbenzylphthalate	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Carbophenthion	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Carboxin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chlorfenvinphos	<4.9		4.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chlorobenzilate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chloroneb	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chloropropylate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chlorothalonil	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chlorpropham	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chlorpyrifos	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chlorpyrifos-methyl	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Chrysene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
cis-Nonachlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
cis-Permethrin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Clomazone	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Coumaphos	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Crotoxyphos(Ciodin)	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Cyanazine	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Cycloate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
DCPA	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
delta-BHC	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Demeton-O	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Demeton-S	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Desethylatrazine	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Deisopropylatrazine	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Di(2-ethylhexyl)adipate	<0.58		0.58		ug/L		02/16/22 09:18	02/19/22 17:37	1
Di (2-ethylhexyl)phthalate	<0.58		0.58		ug/L		02/16/22 09:18	02/19/22 17:37	1
Di-n-butyl phthalate	<1.9		1.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Di-n-octyl phthalate	<1.9		1.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Diazinon	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dibenz(a,h)anthracene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dichlobenil	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dichlofenthion	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dichloran	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dichlorvos	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dicrotophos	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dieldrin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Diethylphthalate	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dimethoate	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dimethyl phthalate	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dioxathion A	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dioxathion B	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Diphenamid	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Disulfoton	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton sulfone	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Disulfoton sulfoxide	<9.7		9.7		ug/L		02/16/22 09:18	02/19/22 17:37	1
E-Phosphamidon	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Endosulfan I	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Endosulfan II	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Endosulfan sulfate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Endrin	<0.0097		0.0097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Endrin aldehyde	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
EPN	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
EPTC	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Erucylamide	**5.3**		4.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Esfenvalerate	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Ethalfluralin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Ethion	<4.9		4.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Ethofumesate	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Ethoprop	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Etridiazole	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Famphur	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fenamiphos	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fenarimol	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fenitrothion	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fenoxaprop-ethyl	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fensulfothion(Dasanit)	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fenthion	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fluazifop-butyl	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fluchloralin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fluometuron	<0.49	*+	0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fluoranthene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fluorene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Fluridone	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Dyfonate(Fonofos)	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
gamma-BHC (Lindane)	<0.019		0.019		ug/L		02/16/22 09:18	02/19/22 17:37	1
gamma-Chlordane	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Heptachlor	<0.039		0.039		ug/L		02/16/22 09:18	02/19/22 17:37	1
Heptachlor epoxide	<0.019		0.019		ug/L		02/16/22 09:18	02/19/22 17:37	1
Hexachlorobenzene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Hexachlorocyclopentadiene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Hexazinone	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Indeno[1,2,3-cd]pyrene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Iprodione	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Isophenphos	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Isophorone	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Leptophos	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Malathion	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Metalaxyl	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Methoxychlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Methyl paraoxon	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Methyl parathion	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Metolachlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Metribuzin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Metsulfuron-methyl	<9.7		9.7		ug/L		02/16/22 09:18	02/19/22 17:37	1
Mevinphos	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
MGK 264 - isomer a	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
MGK 264 - isomer b	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
MGK 326	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Mirex	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Molinate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Monochrotophos	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Naled	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Naphthalene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Napropamide	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Norflurazon	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Oryzalin	<9.7		9.7		ug/L		02/16/22 09:18	02/19/22 17:37	1
Oxadiazon	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Oxychlordane	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Oxyfluorfen	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Parathion	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pebulate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pendimethalin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pentachlorobenzene	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pentachloronitrobenzene	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pentachlorophenol	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Phenanthrene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Phorate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Phosmet	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Profluoralin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Prometon	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Prometryn	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pronamide	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Propachlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Propanil	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Propazine	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Propiconazole A	<4.9		4.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Propiconazole B	<4.9		4.9		ug/L		02/16/22 09:18	02/19/22 17:37	1
Tokuthion (Prothiofos)	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Pyrene	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Simazine	<0.068		0.068		ug/L		02/16/22 09:18	02/19/22 17:37	1
Simetryn	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Stirophos	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Sulfotepp	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Tebuthiuron	<9.7		9.7		ug/L		02/16/22 09:18	02/19/22 17:37	1
TEPP	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Terbacil	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Terbufos	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Terbutryn	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Thiabendazole	<9.7		9.7		ug/L		02/16/22 09:18	02/19/22 17:37	1
Thiobencarb	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Thionazin	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-Nonachlor	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
trans-Permethrin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Triadimefon	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Trichloronate	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Tricyclazole	<0.97		0.97		ug/L		02/16/22 09:18	02/19/22 17:37	1
Trifluralin	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Vernolate	<0.097		0.097		ug/L		02/16/22 09:18	02/19/22 17:37	1
Vinclozolin	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1
Z-Phosphamidon	<0.49		0.49		ug/L		02/16/22 09:18	02/19/22 17:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Dodecanoic acid	*1.9*	*T J N*	*ug/L*		*5.73*	*143-07-7*	*02/16/22 09:18*	*02/19/22 17:37*	*1*
Tetradecanoic acid	*3.9*	*T J N*	*ug/L*		*7.49*	*544-63-8*	*02/16/22 09:18*	*02/19/22 17:37*	*1*
n-Hexadecanoic acid	*9.2*	*T J N*	*ug/L*		*10.15*	*57-10-3*	*02/16/22 09:18*	*02/19/22 17:37*	*1*
Octadecanoic acid	*15*	*T J N*	*ug/L*		*13.49*	*57-11-4*	*02/16/22 09:18*	*02/19/22 17:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4,4'-Dichlorobiphenyl (Surr)	*95*		*70 - 130*	*02/16/22 09:18*	*02/19/22 17:37*	*1*
2,4,5,6-Tetrachloro-m-xylene (Surr)	*96*		*70 - 130*	*02/16/22 09:18*	*02/19/22 17:37*	*1*
Triphenylphosphate (Surr)	*102*		*70 - 130*	*02/16/22 09:18*	*02/19/22 17:37*	*1*

Method: 515.3 - Herbicides (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<0.50		0.50		ug/L		02/17/22 06:52	02/19/22 00:13	1
2,4,5-TP (Silvex)	<0.10		0.10		ug/L		02/17/22 06:52	02/19/22 00:13	1
2,4-D	<0.10		0.10		ug/L		02/17/22 06:52	02/19/22 00:13	1
2,4-DB	<2.0		2.0		ug/L		02/17/22 06:52	02/19/22 00:13	1
3,5-Dichlorobenzoic acid	<0.50		0.50		ug/L		02/17/22 06:52	02/19/22 00:13	1
Acifluorfen	<1.0		1.0		ug/L		02/17/22 06:52	02/19/22 00:13	1
Bentazon	<0.50		0.50		ug/L		02/17/22 06:52	02/19/22 00:13	1
Chloramben	<2.0		2.0		ug/L		02/17/22 06:52	02/19/22 00:13	1
DCPA (acid degradates)	<0.50		0.50		ug/L		02/17/22 06:52	02/19/22 00:13	1
Dalapon	<1.0		1.0		ug/L		02/17/22 06:52	02/19/22 00:13	1
Dicamba	<0.10		0.10		ug/L		02/17/22 06:52	02/19/22 00:13	1
Dichlorprop	<2.0		2.0		ug/L		02/17/22 06:52	02/19/22 00:13	1
Dinoseb	<0.10		0.10		ug/L		02/17/22 06:52	02/19/22 00:13	1
Pentachlorophenol	<0.040		0.040		ug/L		02/17/22 06:52	02/19/22 00:13	1
Picloram	<0.10		0.10		ug/L		02/17/22 06:52	02/19/22 00:13	1
Triclopyr	<0.50		0.50		ug/L		02/17/22 06:52	02/19/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*92*		*70 - 130*	*02/17/22 06:52*	*02/19/22 00:13*	*1*

Method: 556 - Carbonyl Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetaldehyde	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Benzaldehyde	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Butanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Cyclohexanone	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Decanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Formaldehyde	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: 556 - Carbonyl Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Glyoxal (ethanedial)	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Heptanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Hexanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Methyl glyoxal (2-oxopropanal or pyruvic aldehyde)	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Nonanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Octanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Pentanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Propanal	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1
Crotonaldehyde	<5.1		5.1		ug/L		02/17/22 09:27	02/18/22 07:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,5-Trifluoroacetophenone (Surr)	*100*		*70 - 130*	*02/17/22 09:27*	*02/18/22 07:08*	*1*

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.17**		0.020		ug/L			02/11/22 18:50	1

Method: 531.2 LL - Carbamate Pesticides (HPLC) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
3-Hydroxycarbofuran	<0.10		0.10		ug/L			02/24/22 15:39	1
Aldicarb sulfoxide	<0.10		0.10		ug/L			02/24/22 15:39	1
Methiocarb	<1.0		1.0		ug/L			02/24/22 15:39	1
Aldicarb sulfone	<0.10		0.10		ug/L			02/24/22 15:39	1
Aldicarb	<0.10		0.10		ug/L			02/24/22 15:39	1
Oxamyl	<0.10		0.10		ug/L			02/24/22 15:39	1
Methomyl	<0.10		0.10		ug/L			02/24/22 15:39	1
Carbofuran	<0.10		0.10		ug/L			02/24/22 15:39	1
Carbaryl	<0.10		0.10		ug/L			02/24/22 15:39	1
Propoxur	<0.10		0.10		ug/L			02/24/22 15:39	1
1-Naphthol	<1.0		1.0		ug/L			02/24/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*91*		*70 - 130*		*02/24/22 15:39*	*1*

Method: 549.2 - Diquat and Paraquat (HPLC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Paraquat	<0.40		0.40		ug/L		02/15/22 08:19	02/17/22 13:39	1
Diquat	<0.40		0.40		ug/L		02/15/22 08:19	02/17/22 13:39	1

Method: 331.0 - Perchlorate (LC/MS/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.44**		0.050		ug/L			02/12/22 02:16	1

Method: L231 - Algal Toxins (LC/ESI/MS/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anatoxin-a	<0.020		0.020		ug/L			02/18/22 15:11	1
Cylindrospermopsin	<0.050		0.050		ug/L			02/18/22 15:11	1
Microcystin-LA	<0.10		0.10		ug/L			02/18/22 15:11	1
Microcystin-LF	<0.10		0.10		ug/L			02/18/22 15:11	1
Microcystin- LR	<0.10		0.10		ug/L			02/18/22 15:11	1

Client Sample ID: Finished
Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1
Matrix: Drinking Water

Method: L231 - Algal Toxins (LC/ESI/MS/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Microcystin-LY	<0.10		0.10		ug/L			02/18/22 15:11	1
Microcystin-RR	<0.10		0.10		ug/L			02/18/22 15:11	1
Microcystin-YR	<0.10		0.10		ug/L			02/18/22 15:11	1
Nodularin	<0.10		0.10		ug/L			02/18/22 15:11	1

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aldicarb sulfoxide	<0.50		0.50		ug/L			02/17/22 23:08	1
Aldicarb sulfone	<0.50		0.50		ug/L			02/17/22 23:08	1
Azoxystrobin	<0.50		0.50		ug/L			02/17/22 23:08	1
Baygon	<0.050		0.050		ug/L			02/17/22 23:08	1
Bendiocarb	<0.050		0.050		ug/L			02/17/22 23:08	1
Bensulide	<0.050		0.050		ug/L			02/17/22 23:08	1
Bentazon	<0.050		0.050		ug/L			02/17/22 23:08	1
Bispyribac sodium	<0.50		0.50		ug/L			02/17/22 23:08	1
Boscalid	<0.050		0.050		ug/L			02/17/22 23:08	1
Carbaryl	<0.050		0.050		ug/L			02/17/22 23:08	1
Carbofuran	<0.050		0.050		ug/L			02/17/22 23:08	1
Carfentrazone-ethyl	<0.050		0.050		ug/L			02/17/22 23:08	1
Chlorotoluron	<0.050		0.050		ug/L			02/17/22 23:08	1
Clomazone	<0.050		0.050		ug/L			02/17/22 23:08	1
Clopyralid	<0.50		0.50		ug/L			02/17/22 23:08	1
Clothianidin	<0.050		0.050		ug/L			02/17/22 23:08	1
Cyazofamid	<0.050		0.050		ug/L			02/17/22 23:08	1
Dichlorvos	<0.050		0.050		ug/L			02/17/22 23:08	1
Diflubenzuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Diuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Fenamiphos Sulfone	<0.050		0.050		ug/L			02/17/22 23:08	1
Fenamiphos Sulfoxide	<0.050		0.050		ug/L			02/17/22 23:08	1
Fenuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Fludioxonil	<0.050		0.050		ug/L			02/17/22 23:08	1
Fluometuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Fluoxastrobin	<0.050		0.050		ug/L			02/17/22 23:08	1
Halofenozide	<0.050		0.050		ug/L			02/17/22 23:08	1
Halosulfuron-methyl	<0.050		0.050		ug/L			02/17/22 23:08	1
3-Hydroxycarbofuran	<0.050		0.050		ug/L			02/17/22 23:08	1
Imazapic	<0.050		0.050		ug/L			02/17/22 23:08	1
Imidacloprid	<0.050		0.050		ug/L			02/17/22 23:08	1
Indaziflam	<0.050		0.050		ug/L			02/17/22 23:08	1
Isoproturon	<0.050		0.050		ug/L			02/17/22 23:08	1
Linuron	<0.50		0.50		ug/L			02/17/22 23:08	1
Metalaxyl, total	<0.050		0.050		ug/L			02/17/22 23:08	1
Methiocarb	<0.050		0.050		ug/L			02/17/22 23:08	1
Methomyl	<0.050		0.050		ug/L			02/17/22 23:08	1
Methoxyfenozide	<0.050		0.050		ug/L			02/17/22 23:08	1
Monothiuram	<0.50		0.50		ug/L			02/17/22 23:08	1
Monuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Neburon	<0.050		0.050		ug/L			02/17/22 23:08	1
Oryzalin	<0.50		0.50		ug/L			02/17/22 23:08	1
Oxadiazon	<0.050		0.050		ug/L			02/17/22 23:08	1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxamyl	<0.50		0.50		ug/L			02/17/22 23:08	1
Paclobutrazol	<0.050		0.050		ug/L			02/17/22 23:08	1
Prodiamine	<0.50		0.50		ug/L			02/17/22 23:08	1
Propamocarb	<0.50		0.50		ug/L			02/17/22 23:08	1
Propanil	<0.050		0.050		ug/L			02/17/22 23:08	1
Propargite	<0.050		0.050		ug/L			02/17/22 23:08	1
Pyraclostrobin	<0.050		0.050		ug/L			02/17/22 23:08	1
Quinclorac	<0.050		0.050		ug/L			02/17/22 23:08	1
Siduron, total	<0.050		0.050		ug/L			02/17/22 23:08	1
Tebuthiuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Thiencarbazone-methyl	<0.050		0.050		ug/L			02/17/22 23:08	1
Thidiazuron	<0.050		0.050		ug/L			02/17/22 23:08	1
Thiophanate-Methyl	<0.050		0.050		ug/L			02/17/22 23:08	1
Triadimefon	<0.050		0.050		ug/L			02/17/22 23:08	1
Triadimenol, total	<0.050		0.050		ug/L			02/17/22 23:08	1
Trichlorfon	<0.050		0.050		ug/L			02/17/22 23:08	1
Trifloxystrobin	<0.050		0.050		ug/L			02/17/22 23:08	1

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<4.8		4.8		ng/L		02/17/22 07:50	02/19/22 03:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<4.8		4.8		ng/L		02/17/22 07:50	02/19/22 03:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorooctanesulfonic acid (PFOS)	**5.4**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoropentanoic acid (PFPeA)	**8.8**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorohexanoic acid (PFHxA)	**7.7**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorooctanoic acid (PFOA)	**4.5**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorohexanesulfonic acid (PFHxS)	**2.2**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorobutanoic acid (PFBA)	**5.6**		4.8		ng/L		02/17/22 07:50	02/19/22 03:09	1

Client Sample ID: Finished
Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1
Matrix: Drinking Water

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**3.8**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoroheptanoic acid (PFHpA)	**3.0**		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorotetradecanoic acid (PFTeDA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<4.8		4.8		ng/L		02/17/22 07:50	02/19/22 03:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorooctanesulfonamide (PFOSA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluorododecanesulfonic acid (PFDoS)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)	<4.8		4.8		ng/L		02/17/22 07:50	02/19/22 03:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<4.8		4.8		ng/L		02/17/22 07:50	02/19/22 03:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		02/17/22 07:50	02/19/22 03:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C5 PFPeA	*100*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2 PFHxA	*104*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C4 PFHpA	*103*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2 PFOA	*97*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C9 PFNA	*87*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2 PFDA	*75*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C7 PFUnA	*57*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2 PFDoA	*38*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2 PFTeDA	*27*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2 PFHxDA	*195*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C3 PFBS	*124*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C3 PFHxS	*112*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C4 PFOS	*78*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
NMeFOSAA-d3	*46*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
NEtFOSAA-d5	*51*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C8-PFOSA	*37*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
NMeFOSA-d3	*2*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
NEtFOSA-d5	*2*			*02/17/22 07:50*	*02/19/22 03:09*	*1*

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
NMeFOSE-d7	*8*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
NEtFOSE-d9	*5*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2-4:2-FTS	*101*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2-6:2-FTS	*78*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C2-8:2-FTS	*53*			*02/17/22 07:50*	*02/19/22 03:09*	*1*
13C3 HFPO-DA	*79*			*02/17/22 07:50*	*02/19/22 03:09*	*1*

Method: L520 - Acrylamide, Aniline, and Urethane (LC/ESI/MS/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acrylamide	<0.10		0.10		ug/L			02/14/22 15:15	1
Aniline	<0.10		0.10		ug/L			02/14/22 15:15	1
Urethane	<0.20		0.20		ug/L			02/14/22 15:15	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.50		0.50		ug/L			02/15/22 12:58	1
Antimony	<1.0		1.0		ug/L			02/15/22 12:58	1
Uranium	<1.0		1.0		ug/L			02/15/22 12:58	1
Lithium	<2.0		2.0		ug/L			02/15/22 12:58	1
Beryllium	<0.30		0.30		ug/L			02/15/22 12:58	1
Barium	**13**		2.0		ug/L			02/15/22 12:58	1
Thallium	<0.30		0.30		ug/L			02/15/22 12:58	1
Molybdenum	<2.0		2.0		ug/L			02/15/22 12:58	1
Thorium	<1.0		1.0		ug/L			02/15/22 12:58	1
Nickel	<1.0		1.0		ug/L			02/15/22 12:58	1
Vanadium	<2.0		2.0		ug/L			02/15/22 12:58	1
Silver	<0.50		0.50		ug/L			02/15/22 12:58	1
Strontium	**44**		2.0		ug/L			02/15/22 12:58	1
Arsenic	<1.0		1.0		ug/L			02/15/22 12:58	1
Copper	<1.0		1.0		ug/L			02/15/22 12:58	1
Boron	**28**		5.0		ug/L			02/15/22 12:58	1
Aluminum	**73**		2.0		ug/L			02/15/22 12:58	1
Lead	<0.50		0.50		ug/L			02/15/22 12:58	1
Zinc	<5.0		5.0		ug/L			02/15/22 12:58	1
Tin	<1.0		1.0		ug/L			02/15/22 12:58	1
Selenium	<2.0		2.0		ug/L			02/15/22 12:58	1
Manganese	**3.9**		2.0		ug/L			02/15/22 12:58	1
Chromium	<0.90		0.90		ug/L			02/15/22 12:58	1
Cobalt	<2.0		2.0		ug/L			02/15/22 12:58	1
Titanium	<5.0		5.0		ug/L			02/15/22 12:58	1

Surrogate Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DCZ
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
810-14575-1	Finished	98	98	95	95
MB 810-13258/6	Method Blank	92	92	94	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Method: 524.3 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		yl methyl-	BFB	DCZ
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
810-14575-1	Finished	100	100	99
810-14575-1 MS	Finished	101	100	100
MB 810-12825/14	Method Blank	101	100	99

Surrogate Legend

tert-Butyl methyl-d3 ether = tert-Butyl methyl-d3 ether
BFB = 4-Bromofluorobenzene (Surr)
DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(70-130)
810-14575-1	Finished	101
LLCS 810-13289/2-A	Lab Control Sample	105
MB 810-13289/1-A	Method Blank	101

Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS)

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		lorobiphe	TCX	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
810-14575-1	Finished	95	96	102
LCS 810-13012/2-A	Lab Control Sample	94	90	99
LCS 810-13012/3-A	Lab Control Sample	96	90	101
LCS 810-13012/4-A	Lab Control Sample	97	89	101
MB 810-13012/1-A	Method Blank	95	90	100

Surrogate Legend

4,4'-Dichlorobiphenyl (Surr) = 4,4'-Dichlorobiphenyl (Surr)
TCX = 2,4,5,6-Tetrachloro-m-xylene (Surr)
TPP = Triphenylphosphate (Surr)

Surrogate Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Method: 515.3 - Herbicides (GC)

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA1 (70-130)
810-14575-1	Finished	92
LCS 810-13087/5-B	Lab Control Sample	92
LCS 810-13087/6-B	Lab Control Sample	100
LCS 810-13087/7-B	Lab Control Sample	94
LCS 810-13087/8-B	Lab Control Sample	92
LLCS 810-13087/2-B	Lab Control Sample	103
MB 810-13087/1-B	Method Blank	112

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 556 - Carbonyl Compounds (GC)

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	245TFA1 (70-130)
810-14575-1	Finished	100
810-14575-1 MS	Finished	99
810-14575-1 MSD	Finished	102
MB 810-13102/1-A	Method Blank	100

Surrogate Legend

245TFA = 2,4,5-Trifluoroacetophenone (Surr)

Method: 531.2 LL - Carbamate Pesticides (HPLC)

Matrix: Drinking Water — **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BDMC (70-130)
810-14575-1	Finished	91
810-14575-1 MS	Finished	96
810-14575-1 MSD	Finished	96
MB 810-13395/1-A	Method Blank	91

Surrogate Legend

BDMC = 4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate

Isotope Dilution Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	13PFOA	C9PFNA	PFDA	13C7PUA
Lab Sample ID	Client Sample ID								
810-14575-1	Finished	100	100	104	103	97	87	75	57
LLCS 810-13091/2-A	Lab Control Sample	98	94	97	97	93	80	64	48
MBL 810-13091/1-A	Method Blank	92	88	93	91	80	62	48	40

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	PFHxDA	C3PFBS	C3PFHS	PFOS	NFOSAA	NEFOS
Lab Sample ID	Client Sample ID								
810-14575-1	Finished	38	27	195	124	112	78	46	51
LLCS 810-13091/2-A	Lab Control Sample	41	48	74	104	98	67	38	44
MBL 810-13091/1-A	Method Blank	34	39	63	102	91	49	34	39

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C8PA	NMFOSA	NEFOSA	NMFOSE	NEFOSE	42FTS	62FTS	82FTS
Lab Sample ID	Client Sample ID								
810-14575-1	Finished	37	2	2	8	5	101	78	53
LLCS 810-13091/2-A	Lab Control Sample	50	20	24	35	33	74	86	64
MBL 810-13091/1-A	Method Blank	41	19	24	30	28	80	86	53

		Percent Isotope Dilution Recovery (Acceptance Limits)
		HFPODA
Lab Sample ID	Client Sample ID	
810-14575-1	Finished	79
LLCS 810-13091/2-A	Lab Control Sample	91
MBL 810-13091/1-A	Method Blank	84

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
13PFOA = 13C2 PFOA
C9PFNA = 13C9 PFNA
PFDA = 13C2 PFDA
13C7PUA = 13C7 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
PFOS = 13C4 PFOS
NFOSAA = NMeFOSAA-d3
NEFOS = NEtFOSAA-d5
13C8PA = 13C8-PFOSA
NMFOSA = NMeFOSA-d3
NEFOSA = NEtFOSA-d5
NMFOSE = NMeFOSE-d7
NEFOSE = NEtFOSE-d9
42FTS = 13C2-4:2-FTS
62FTS = 13C2-6:2-FTS
82FTS = 13C2-8:2-FTS
HFPODA = 13C3 HFPO-DA

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-13258/6
Matrix: Drinking Water
Analysis Batch: 13258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Styrene	<0.50		0.50		ug/L			02/19/22 12:15	1
cis-1,3-Dichloropropylene	<0.50		0.50		ug/L			02/19/22 12:15	1
trans-1,3-Dichloropropylene	<0.50		0.50		ug/L			02/19/22 12:15	1
N-Propylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
n-Butylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
4-Chlorotoluene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,2-Dibromoethane (EDB)	<0.20		0.20		ug/L			02/19/22 12:15	1
Allyl chloride	<5.0		5.0		ug/L			02/19/22 12:15	1
1,2-Dichloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Acrylonitrile	<1.0		1.0		ug/L			02/19/22 12:15	1
Chloroacetonitrile	<5.0		5.0		ug/L			02/19/22 12:15	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/L			02/19/22 12:15	1
1,3,5-Trimethylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Bromobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Toluene	<0.50		0.50		ug/L			02/19/22 12:15	1
Chlorobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1-Chlorobutane	<5.0		5.0		ug/L			02/19/22 12:15	1
Tetrahydrofuran	<5.0		5.0		ug/L			02/19/22 12:15	1
trans-1,4-Dichloro-2-butylene	<5.0		5.0		ug/L			02/19/22 12:15	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Dibromochloromethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Tetrachloroethene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,3-Dichloropropane	<0.50		0.50		ug/L			02/19/22 12:15	1
cis-1,2-Dichloroethylene	<0.50		0.50		ug/L			02/19/22 12:15	1
trans-1,2-Dichloroethylene	<0.50		0.50		ug/L			02/19/22 12:15	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50		ug/L			02/19/22 12:15	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,2,3-Trimethylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Carbon tetrachloride	<0.50		0.50		ug/L			02/19/22 12:15	1
1,1-Dichloropropene	<0.50		0.50		ug/L			02/19/22 12:15	1
2-Hexanone	<5.0		5.0		ug/L			02/19/22 12:15	1
2,2-Dichloropropane	<0.50		0.50		ug/L			02/19/22 12:15	1
Ethyl ether	<2.0		2.0		ug/L			02/19/22 12:15	1
Chloroform	<0.50		0.50		ug/L			02/19/22 12:15	1
Hexachloroethane	<2.0		2.0		ug/L			02/19/22 12:15	1
Benzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Bromomethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Chloromethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Methyl iodide	<2.0		2.0		ug/L			02/19/22 12:15	1
Dibromomethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Bromochloromethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Chloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Vinyl chloride	<0.20		0.20		ug/L			02/19/22 12:15	1
Dichloromethane	<0.50		0.50		ug/L			02/19/22 12:15	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-13258/6
Matrix: Drinking Water
Analysis Batch: 13258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<5.0		5.0		ug/L			02/19/22 12:15	1
Bromoform	<0.50		0.50		ug/L			02/19/22 12:15	1
Bromodichloromethane	<0.50		0.50		ug/L			02/19/22 12:15	1
1,1-Dichloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
1,1-Dichloroethene	<0.50		0.50		ug/L			02/19/22 12:15	1
Trichlorofluoromethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Dichlorodifluoromethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Pentachloroethane	<2.0		2.0		ug/L			02/19/22 12:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
1,2-Dichloropropane	<0.50		0.50		ug/L			02/19/22 12:15	1
2-Butanone (MEK)	<5.0		5.0		ug/L			02/19/22 12:15	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Trichloroethylene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Methyl methacrylate	<1.0		1.0		ug/L			02/19/22 12:15	1
1,2,3-Trichlorobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Hexachlorobutadiene	<0.50		0.50		ug/L			02/19/22 12:15	1
Naphthalene	<0.50		0.50		ug/L			02/19/22 12:15	1
o-Xylene	<0.50		0.50		ug/L			02/19/22 12:15	1
2-Chlorotoluene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,2,4-Trimethylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			02/19/22 12:15	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			02/19/22 12:15	1
Methyl acrylate	<1.0		1.0		ug/L			02/19/22 12:15	1
Ethyl methacrylate	<1.0		1.0		ug/L			02/19/22 12:15	1
tert-Butylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
Isopropylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
4-Isopropyltoluene	<0.50		0.50		ug/L			02/19/22 12:15	1
Propionitrile	<5.0		5.0		ug/L			02/19/22 12:15	1
sec-Butylbenzene	<0.50		0.50		ug/L			02/19/22 12:15	1
1,1-Dichloroacetone	<5.0		5.0		ug/L			02/19/22 12:15	1
2-Nitropropane	<2.0		2.0		ug/L			02/19/22 12:15	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			02/19/22 12:15	1
Xylenes, Total	<0.50		0.50		ug/L			02/19/22 12:15	1
Nitrobenzene	<5.0		5.0		ug/L			02/19/22 12:15	1
Methacrylonitrile	<5.0		5.0		ug/L			02/19/22 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*02/19/22 12:15*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/19/22 12:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*02/19/22 12:15*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*95*		*70 - 130*		*02/19/22 12:15*	*1*

Method: 524.3 - Volatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 810-12825/14
Matrix: Drinking Water
Analysis Batch: 12825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.0050		0.0050		ug/L			02/14/22 15:54	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		ug/L			02/14/22 15:54	1
1,2,3-Trichloropropane	<0.0050		0.0050		ug/L			02/14/22 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
tert-Butyl methyl-d3 ether	*101*		*70 - 130*		*02/14/22 15:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/14/22 15:54*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*99*		*70 - 130*		*02/14/22 15:54*	*1*

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 12825

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	<0.0050		0.0500	0.0490		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	<0.0050		0.0500	0.0470		ug/L		94	70 - 130
1,2,3-Trichloropropane	<0.0050		0.0500	0.0536		ug/L		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
tert-Butyl methyl-d3 ether	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,2-Dichlorobenzene-d4 (Surr)	*100*		*70 - 130*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 810-13289/1-A
Matrix: Drinking Water
Analysis Batch: 13334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13289

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070		ug/L		02/21/22 08:20	02/21/22 16:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*101*		*70 - 130*	*02/21/22 08:20*	*02/21/22 16:49*	*1*

Lab Sample ID: LLCS 810-13289/2-A
Matrix: Drinking Water
Analysis Batch: 13334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13289

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane			0.0700	0.0710		ug/L		101	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*105*		*70 - 130*

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-13012/1-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13012

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
1-Methylnaphthalene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,2',3',4,6-Pentachlorobiphenyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,2',4,4'-Tetrachlorobiphenyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,3-Dichlorobiphenyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,4,5-Trichlorobiphenyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,4-Dinitrotoluene	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
2,6-Dinitrotoluene	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
2-Chlorobiphenyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
2-Methylnaphthalene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
4,4'-DDD	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
4,4'-DDE	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
4,4'-DDT	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Acenaphthene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Acenaphthylene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Acetochlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Alachlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Aldrin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
alpha-Chlordane	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
alpha-BHC	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Ametryn	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Anilazine	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Anthracene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Aspon	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Atraton	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Atrazine	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Azinphos-ethyl	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Azinphos-methyl	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Bendiocarb	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Benfluralin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Benzo[a]anthracene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Benzo[a]pyrene	<0.020		0.020		ug/L		02/16/22 09:18	02/19/22 16:53	1
Benzo[b]fluoranthene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Benzo[g,h,i]perylene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Benzo[k]fluoranthene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
beta-BHC	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Bolstar	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Bromacil	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Butachlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Butylate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Butylbenzylphthalate	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Carbophenthion	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Carboxin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chlorfenvinphos	<5.0		5.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chlorobenzilate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-13012/1-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13012

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroneb	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chloropropylate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chlorothalonil	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chlorpropham	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chlorpyrifos	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chlorpyrifos-methyl	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Chrysene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
cis-Nonachlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
cis-Permethrin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Clomazone	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Coumaphos	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Crotoxyphos(Ciodin)	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Cyanazine	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Cycloate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
DCPA	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
delta-BHC	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Demeton-O	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Demeton-S	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Desethylatrazine	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Deisopropylatrazine	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Di(2-ethylhexyl)adipate	<0.60		0.60		ug/L		02/16/22 09:18	02/19/22 16:53	1
Di (2-ethylhexyl)phthalate	<0.60		0.60		ug/L		02/16/22 09:18	02/19/22 16:53	1
Di-n-butyl phthalate	<2.0		2.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Di-n-octyl phthalate	<2.0		2.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Diazinon	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dibenz(a,h)anthracene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dichlobenil	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dichlofenthion	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dichloran	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dichlorvos	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dicrotophos	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dieldrin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Diethylphthalate	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dimethoate	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dimethyl phthalate	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dioxathion A	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dioxathion B	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Diphenamid	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Disulfoton	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Disulfoton sulfone	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Disulfoton sulfoxide	<10		10		ug/L		02/16/22 09:18	02/19/22 16:53	1
E-Phosphamidon	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Endosulfan I	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Endosulfan II	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Endosulfan sulfate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Endrin	<0.010		0.010		ug/L		02/16/22 09:18	02/19/22 16:53	1
Endrin aldehyde	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
EPN	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
EPTC	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-13012/1-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13012

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Erucylamide	<5.0		5.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Esfenvalerate	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Ethalfluralin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Ethion	<5.0		5.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Ethofumesate	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Ethoprop	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Etridiazole	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Famphur	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fenamiphos	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fenarimol	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fenitrothion	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fenoxaprop-ethyl	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fensulfothion(Dasanit)	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fenthion	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fluazifop-butyl	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fluchloralin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fluometuron	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fluoranthene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fluorene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Fluridone	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Dyfonate(Fonofos)	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
gamma-BHC (Lindane)	<0.020		0.020		ug/L		02/16/22 09:18	02/19/22 16:53	1
gamma-Chlordane	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Heptachlor	<0.040		0.040		ug/L		02/16/22 09:18	02/19/22 16:53	1
Heptachlor epoxide	<0.020		0.020		ug/L		02/16/22 09:18	02/19/22 16:53	1
Hexachlorobenzene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Hexachlorocyclopentadiene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Hexazinone	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Indeno[1,2,3-cd]pyrene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Iprodione	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Isophenphos	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Isophorone	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Leptophos	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Malathion	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Metalaxyl	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Methoxychlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Methyl paraoxon	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Methyl parathion	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Metolachlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Metribuzin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Metsulfuron-methyl	<10		10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Mevinphos	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
MGK 264 - isomer a	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
MGK 264 - isomer b	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
MGK 326	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Mirex	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Molinate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Monochrotophos	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Naled	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-13012/1-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13012

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Napropamide	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Norflurazon	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Oryzalin	<10		10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Oxadiazon	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Oxychlordane	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Oxyfluorfen	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Parathion	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pebulate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pendimethalin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pentachlorobenzene	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pentachloronitrobenzene	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pentachlorophenol	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Phenanthrene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Phorate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Phosmet	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Profluoralin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Prometon	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Prometryn	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pronamide	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Propachlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Propanil	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Propazine	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Propiconazole A	<5.0		5.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Propiconazole B	<5.0		5.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Tokuthion (Prothiofos)	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Pyrene	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Simazine	<0.070		0.070		ug/L		02/16/22 09:18	02/19/22 16:53	1
Simetryn	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Stirophos	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Sulfotepp	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Tebuthiuron	<10		10		ug/L		02/16/22 09:18	02/19/22 16:53	1
TEPP	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Terbacil	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Terbufos	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Terbutryn	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Thiabendazole	<10		10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Thiobencarb	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Thionazin	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
trans-Nonachlor	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
trans-Permethrin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Triadimefon	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Trichloronate	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Tricyclazole	<1.0		1.0		ug/L		02/16/22 09:18	02/19/22 16:53	1
Trifluralin	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Vernolate	<0.10		0.10		ug/L		02/16/22 09:18	02/19/22 16:53	1
Vinclozolin	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1
Z-Phosphamidon	<0.50		0.50		ug/L		02/16/22 09:18	02/19/22 16:53	1

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-13012/1-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13012

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dodecane	1.11	T J N	ug/L		3.69	112-40-3	02/16/22 09:18	02/19/22 16:53	1
Dodecanoic acid	0.506	T J N	ug/L		5.73	143-07-7	02/16/22 09:18	02/19/22 16:53	1
Tetradecanoic acid	0.703	T J N	ug/L		7.48	544-63-8	02/16/22 09:18	02/19/22 16:53	1
n-Hexadecanoic acid	1.70	T J N	ug/L		10.12	57-10-3	02/16/22 09:18	02/19/22 16:53	1
Octadecanoic acid	1.42	T J N	ug/L		13.42	57-11-4	02/16/22 09:18	02/19/22 16:53	1
Unknown	0.359	T J	ug/L		36.68		02/16/22 09:18	02/19/22 16:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4,4'-Dichlorobiphenyl (Surr)	95		70 - 130	02/16/22 09:18	02/19/22 16:53	1
2,4,5,6-Tetrachloro-m-xylene (Surr)	90		70 - 130	02/16/22 09:18	02/19/22 16:53	1
Triphenylphosphate (Surr)	100		70 - 130	02/16/22 09:18	02/19/22 16:53	1

Lab Sample ID: LCS 810-13012/2-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	4.92	5.14		ug/L		105	70 - 130
4,4'-DDD	4.92	4.90		ug/L		100	60 - 140
4,4'-DDE	4.92	4.72		ug/L		96	60 - 150
alpha-BHC	4.92	4.83		ug/L		98	70 - 130
Anilazine	4.92	4.47		ug/L		91	30 - 160
beta-BHC	4.92	4.83		ug/L		98	70 - 130
Butylate	4.92	4.90		ug/L		100	70 - 130
Chlorobenzilate	4.92	5.33		ug/L		108	60 - 170
Chloroneb	4.92	5.02		ug/L		102	70 - 130
cis-Permethrin	4.92	5.90		ug/L		120	70 - 160
Cycloate	4.92	4.97		ug/L		101	70 - 140
DCPA	4.92	4.55		ug/L		92	70 - 130
delta-BHC	4.92	4.84		ug/L		98	70 - 130
Demeton-O	4.92	4.76		ug/L		97	20 - 140
Demeton-S	4.92	6.19		ug/L		126	70 - 150
Desethylatrazine	4.92	2.30		ug/L		47	20 - 120
Diazinon	4.92	4.47		ug/L		91	50 - 130
Dichlofenthion	4.92	4.80		ug/L		98	70 - 140
Dichloran	4.92	5.07		ug/L		103	70 - 130
Dichlorvos	4.92	5.22		ug/L		106	40 - 160
Disulfoton	4.92	5.42		ug/L		110	70 - 140
Endosulfan I	4.92	5.00		ug/L		102	70 - 140
Endosulfan II	4.92	5.08		ug/L		103	60 - 180
Endosulfan sulfate	4.92	4.70		ug/L		95	70 - 150
Endrin aldehyde	4.92	4.59		ug/L		93	60 - 150
EPTC	4.92	5.05		ug/L		103	70 - 130
Fenthion	4.92	5.06		ug/L		103	70 - 130
Fluchloralin	4.92	5.26		ug/L		107	70 - 130
Fluoranthene	4.92	4.97		ug/L		101	70 - 130
Dyfonate(Fonofos)	4.92	5.00		ug/L		102	70 - 140
MGK 264 - isomer a	3.44	3.26		ug/L		95	60 - 150

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 810-13012/2-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MGK 264 - isomer b	1.48	1.64		ug/L		111	70 - 170
MGK 326	4.92	5.84		ug/L		119	70 - 150
Molinate	4.92	5.17		ug/L		105	70 - 130
Pebulate	4.92	5.08		ug/L		103	70 - 130
Pendimethalin	4.92	4.92		ug/L		100	70 - 160
Profluoralin	4.92	4.87		ug/L		99	70 - 130
Prometryn	4.92	4.84		ug/L		98	1 - 170
Simetryn	4.92	4.47		ug/L		91	50 - 130
Terbutryn	4.92	4.70		ug/L		95	40 - 150
trans-Permethrin	4.92	5.13		ug/L		104	70 - 160
Triadimefon	4.92	5.19		ug/L		106	70 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4,4'-Dichlorobiphenyl (Surr)	*94*		*70 - 130*
2,4,5,6-Tetrachloro-m-xylene (Surr)	*90*		*70 - 130*
Triphenylphosphate (Surr)	*99*		*70 - 130*

Lab Sample ID: LCS 810-13012/3-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	4.98	5.43		ug/L		109	70 - 130
2,4-Dinitrotoluene	4.98	3.95		ug/L		79	50 - 130
2,6-Dinitrotoluene	4.98	3.87		ug/L		78	40 - 130
4,4'-DDT	4.98	4.82		ug/L		97	60 - 130
Acetochlor	4.98	5.36		ug/L		108	60 - 150
Alachlor	4.98	5.31		ug/L		107	70 - 130
Aldrin	4.98	4.12		ug/L		83	70 - 130
alpha-Chlordane	4.98	4.49		ug/L		90	60 - 150
Ametryn	4.98	5.27		ug/L		106	50 - 130
Aspon	4.98	5.81		ug/L		117	60 - 130
Atraton	4.98	3.54		ug/L		71	10 - 130
Atrazine	4.98	5.26		ug/L		106	70 - 130
Azinphos-methyl	4.98	6.84		ug/L		137	40 - 150
Benfluralin	4.98	4.78		ug/L		96	70 - 140
Benzo[a]pyrene	4.98	4.51		ug/L		90	60 - 130
Bolstar	4.98	5.25		ug/L		105	40 - 170
Bromacil	4.98	6.02		ug/L		121	60 - 150
Butachlor	4.98	5.13		ug/L		103	60 - 140
Carboxin	4.98	5.26		ug/L		106	40 - 140
Chloropropylate	4.98	5.86		ug/L		118	50 - 170
Chlorothalonil	4.98	5.08		ug/L		102	80 - 130
Chlorpropham	4.98	5.60		ug/L		112	70 - 130
Chlorpyrifos	4.98	5.20		ug/L		104	60 - 140
Clomazone	4.98	5.58		ug/L		112	60 - 140
Coumaphos	4.98	6.10		ug/L		122	60 - 140
Cyanazine	4.98	5.25		ug/L		105	60 - 130

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 810-13012/3-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Deisopropylatrazine	4.98	1.47		ug/L		29	3 - 130
Di(2-ethylhexyl)adipate	4.98	5.39		ug/L		108	60 - 140
Di (2-ethylhexyl)phthalate	4.98	5.22		ug/L		105	60 - 140
Dichlobenil	4.98	5.29		ug/L		106	60 - 130
Dieldrin	4.98	5.02		ug/L		101	60 - 140
Dimethoate	4.98	2.42		ug/L		49	10 - 130
Diphenamid	4.98	5.78		ug/L		116	60 - 140
Disulfoton sulfone	4.98	5.53		ug/L		111	40 - 170
Endrin	4.98	4.67		ug/L		94	60 - 150
Ethalfluralin	4.98	4.76		ug/L		96	70 - 140
Ethion	4.98	5.55		ug/L		111	40 - 160
Ethofumesate	4.98	5.51		ug/L		111	60 - 150
Ethoprop	4.98	5.80		ug/L		116	40 - 160
Etridiazole	4.98	4.86		ug/L		97	60 - 130
Famphur	4.98	5.56		ug/L		112	50 - 150
Fenamiphos	4.98	6.13		ug/L		123	1 - 260
Fluazifop-butyl	4.98	5.40		ug/L		108	50 - 160
Fluometuron	4.98	8.66	*+	ug/L		174	2 - 160
gamma-BHC (Lindane)	4.98	5.05		ug/L		101	70 - 130
gamma-Chlordane	4.98	4.54		ug/L		91	60 - 140
Heptachlor	4.98	5.37		ug/L		108	60 - 140
Heptachlor epoxide	4.98	4.54		ug/L		91	60 - 130
Hexachlorobenzene	4.98	4.42		ug/L		89	60 - 130
Hexachlorocyclopentadiene	4.98	3.53		ug/L		71	50 - 130
Hexazinone	4.98	5.88		ug/L		118	50 - 170
Isophorone	4.98	5.40		ug/L		108	60 - 130
Malathion	4.98	5.88		ug/L		118	60 - 140
Methoxychlor	4.98	5.08		ug/L		102	70 - 130
Methyl paraoxon	4.98	5.69		ug/L		114	60 - 140
Metolachlor	4.98	5.39		ug/L		108	70 - 140
Metribuzin	4.98	5.61		ug/L		113	70 - 130
Mevinphos	4.98	6.07		ug/L		122	60 - 150
Naphthalene	4.98	5.31		ug/L		107	70 - 130
Napropamide	4.98	5.73		ug/L		115	30 - 170
Oxadiazon	4.98	5.35		ug/L		107	50 - 170
Pentachloronitrobenzene	4.98	5.06		ug/L		102	70 - 140
Phorate	4.98	5.31		ug/L		107	60 - 130
Prometon	4.98	4.00		ug/L		80	3 - 130
Pronamide	4.98	5.34		ug/L		107	70 - 130
Propachlor	4.98	5.22		ug/L		105	70 - 130
Propanil	4.98	5.82		ug/L		117	70 - 130
Propazine	4.98	5.44		ug/L		109	60 - 140
Simazine	4.98	5.62		ug/L		113	70 - 130
Stirophos	4.98	4.69		ug/L		94	40 - 190
Terbacil	4.98	6.00		ug/L		121	50 - 150
Terbufos	4.98	5.30		ug/L		106	70 - 160
Thiobencarb	4.98	5.75		ug/L		115	70 - 140
trans-Nonachlor	4.98	4.40		ug/L		88	60 - 140
Trifluralin	4.98	4.76		ug/L		96	50 - 150

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 810-13012/3-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vernolate	4.98	5.23		ug/L		105	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4,4'-Dichlorobiphenyl (Surr)	*96*		*70 - 130*
2,4,5,6-Tetrachloro-m-xylene (Surr)	*90*		*70 - 130*
Triphenylphosphate (Surr)	*101*		*70 - 130*

Lab Sample ID: LCS 810-13012/4-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	4.92	4.11		ug/L		84	60 - 130
2,2',3',4,6-Pentachlorobiphenyl	4.92	4.44		ug/L		90	70 - 140
2,2',3,3',4,4',6-Heptachlorobiphenyl	4.92	4.50		ug/L		92	40 - 150
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.92	4.42		ug/L		90	60 - 150
2,2',4,4',5,6'-Hexachlorobiphenyl	4.92	4.29		ug/L		87	70 - 150
2,2',4,4'-Tetrachlorobiphenyl	4.92	4.42		ug/L		90	70 - 130
2,3-Dichlorobiphenyl	4.92	4.59		ug/L		93	70 - 130
2,4,5-Trichlorobiphenyl	4.92	4.62		ug/L		94	70 - 130
2-Chlorobiphenyl	4.92	4.74		ug/L		96	70 - 130
Acenaphthene	4.92	4.96		ug/L		101	70 - 130
Acenaphthylene	4.92	4.95		ug/L		101	70 - 130
Anthracene	4.92	4.75		ug/L		97	50 - 130
Azinphos-ethyl	4.92	5.87		ug/L		119	60 - 150
Bendiocarb	4.92	5.56		ug/L		113	70 - 150
Benzo[a]anthracene	4.92	4.90		ug/L		100	70 - 130
Benzo[b]fluoranthene	4.92	5.01		ug/L		102	70 - 130
Benzo[g,h,i]perylene	4.92	4.73		ug/L		96	50 - 140
Benzo[k]fluoranthene	4.92	4.86		ug/L		99	70 - 130
Butylbenzylphthalate	4.92	5.46		ug/L		111	60 - 140
Carbophenthion	4.92	5.39		ug/L		110	40 - 150
Chlorfenvinphos	4.33	4.53	J	ug/L		105	50 - 140
Chlorpyrifos-methyl	4.92	4.95		ug/L		101	70 - 140
Chrysene	4.92	5.00		ug/L		102	70 - 130
cis-Nonachlor	4.92	4.36		ug/L		89	70 - 160
Crotoxyphos(Ciodin)	4.92	6.96		ug/L		142	30 - 190
Di-n-butyl phthalate	4.92	5.18		ug/L		105	70 - 140
Di-n-octyl phthalate	4.92	6.25		ug/L		127	70 - 150
Dibenz(a,h)anthracene	4.92	4.70		ug/L		96	60 - 140
Dicrotophos	4.92	6.27		ug/L		128	5 - 200
Diethylphthalate	4.92	4.86		ug/L		99	70 - 130
Dimethyl phthalate	4.92	4.70		ug/L		96	70 - 130
Dioxathion A	3.24	3.80		ug/L		117	60 - 180
Dioxathion B	1.62	2.32		ug/L		143	1 - 340
Disulfoton sulfoxide	9.83	10.8		ug/L		109	40 - 140

Method: 525.2 Ext - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 810-13012/4-A
Matrix: Drinking Water
Analysis Batch: 13245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
E-Phosphamidon	1.38	3.04		ug/L		221	1 - 280
EPN	4.92	5.40		ug/L		110	40 - 180
Erucylamide	9.83	25.0		ug/L		254	1 - 300
Esfenvalerate	4.92	5.56		ug/L		113	70 - 140
Fenarimol	4.92	5.00		ug/L		102	60 - 140
Fenitrothion	4.92	5.39		ug/L		110	70 - 150
Fenoxaprop-ethyl	4.92	3.75		ug/L		76	1 - 130
Fensulfothion(Dasanit)	4.92	7.31		ug/L		149	15 - 240
Fluorene	4.92	4.86		ug/L		99	70 - 130
Fluridone	4.92	6.86		ug/L		140	50 - 150
Indeno[1,2,3-cd]pyrene	4.92	4.70		ug/L		96	60 - 130
Iprodione	4.92	5.56		ug/L		113	70 - 160
Isophenphos	4.92	5.33		ug/L		108	60 - 150
Leptophos	4.92	5.11		ug/L		104	70 - 140
Metalaxyl	4.92	5.27		ug/L		107	70 - 140
Methyl parathion	4.92	6.35		ug/L		129	70 - 220
Metsulfuron-methyl	9.83	12.9		ug/L		131	20 - 160
Mirex	4.92	4.45		ug/L		90	40 - 150
Monochrotophos	4.92	3.66		ug/L		74	10 - 130
Naled	4.92	4.81		ug/L		98	20 - 180
Norflurazon	4.92	5.47		ug/L		111	60 - 150
Oryzalin	4.92	6.28	J	ug/L		128	1 - 350
Oxychlordane	4.92	4.66		ug/L		95	70 - 140
Oxyfluorfen	4.92	5.28		ug/L		107	50 - 160
Parathion	4.92	5.37		ug/L		109	60 - 140
Pentachlorobenzene	4.92	4.18		ug/L		85	70 - 130
Pentachlorophenol	4.92	5.99		ug/L		122	50 - 130
Phenanthrene	4.92	4.85		ug/L		99	70 - 130
Phosmet	4.92	5.13		ug/L		104	60 - 140
Propiconazole A	0.541	0.609	J	ug/L		113	20 - 190
Propiconazole B	4.18	4.13	J	ug/L		99	50 - 150
Tokuthion (Prothiofos)	4.92	5.31		ug/L		108	60 - 150
Pyrene	4.92	4.88		ug/L		99	70 - 130
Sulfotepp	4.92	4.56		ug/L		93	70 - 130
Tebuthiuron	9.83	10.9		ug/L		111	60 - 140
TEPP	4.92	7.37		ug/L		150	1 - 200
Thiabendazole	4.92	0.858	J	ug/L		17	1 - 130
Thionazin	4.92	4.48		ug/L		91	70 - 140
Trichloronate	4.92	4.82		ug/L		98	70 - 140
Tricyclazole	4.92	5.89		ug/L		120	40 - 150
Vinclozolin	4.92	5.52		ug/L		112	70 - 140
Z-Phosphamidon	3.44	4.43		ug/L		129	20 - 190

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4,4'-Dichlorobiphenyl (Surr)	*97*		*70 - 130*
2,4,5,6-Tetrachloro-m-xylene (Surr)	*89*		*70 - 130*
Triphenylphosphate (Surr)	*101*		*70 - 130*

Method: 515.3 - Herbicides (GC)

Lab Sample ID: MB 810-13087/1-B
Matrix: Drinking Water
Analysis Batch: 13246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13087

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<0.50		0.50		ug/L		02/17/22 06:52	02/18/22 17:49	1
2,4,5-TP (Silvex)	<0.10		0.10		ug/L		02/17/22 06:52	02/18/22 17:49	1
2,4-D	<0.10		0.10		ug/L		02/17/22 06:52	02/18/22 17:49	1
2,4-DB	<2.0		2.0		ug/L		02/17/22 06:52	02/18/22 17:49	1
3,5-Dichlorobenzoic acid	<0.50		0.50		ug/L		02/17/22 06:52	02/18/22 17:49	1
Acifluorfen	<1.0		1.0		ug/L		02/17/22 06:52	02/18/22 17:49	1
Bentazon	<0.50		0.50		ug/L		02/17/22 06:52	02/18/22 17:49	1
Chloramben	<2.0		2.0		ug/L		02/17/22 06:52	02/18/22 17:49	1
DCPA (acid degradates)	<0.50		0.50		ug/L		02/17/22 06:52	02/18/22 17:49	1
Dalapon	<1.0		1.0		ug/L		02/17/22 06:52	02/18/22 17:49	1
Dicamba	<0.10		0.10		ug/L		02/17/22 06:52	02/18/22 17:49	1
Dichlorprop	<2.0		2.0		ug/L		02/17/22 06:52	02/18/22 17:49	1
Dinoseb	<0.10		0.10		ug/L		02/17/22 06:52	02/18/22 17:49	1
Pentachlorophenol	<0.040		0.040		ug/L		02/17/22 06:52	02/18/22 17:49	1
Picloram	<0.10		0.10		ug/L		02/17/22 06:52	02/18/22 17:49	1
Triclopyr	<0.50		0.50		ug/L		02/17/22 06:52	02/18/22 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*112*		*70 - 130*	*02/17/22 06:52*	*02/18/22 17:49*	*1*

Lab Sample ID: LCS 810-13087/5-B
Matrix: Drinking Water
Analysis Batch: 13246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13087

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*92*		*70 - 130*

Lab Sample ID: LCS 810-13087/6-B
Matrix: Drinking Water
Analysis Batch: 13246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13087

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*100*		*70 - 130*

Lab Sample ID: LCS 810-13087/7-B
Matrix: Drinking Water
Analysis Batch: 13246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13087

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*94*		*70 - 130*

Lab Sample ID: LCS 810-13087/8-B
Matrix: Drinking Water
Analysis Batch: 13246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13087

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*92*		*70 - 130*

Method: 515.3 - Herbicides (GC)

Lab Sample ID: LLCS 810-13087/2-B
Matrix: Drinking Water
Analysis Batch: 13246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13087

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-TP (Silvex)			0.100	0.113		ug/L		113	48 - 148		
2,4-D			0.200	<0.10		ug/L		37	24 - 138		
Dicamba			0.200	<0.10		ug/L		40			
Dinoseb			0.200	0.192		ug/L		96	39 - 141		
Pentachlorophenol			0.0400	0.0618		ug/L		155	30 - 171		
Picloram			0.100	0.102		ug/L		102	24 - 150		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*103*		*70 - 130*

Method: 556 - Carbonyl Compounds (GC)

Lab Sample ID: MB 810-13102/1-A
Matrix: Drinking Water
Analysis Batch: 13152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13102

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetaldehyde	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Benzaldehyde	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Butanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Cyclohexanone	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Decanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Formaldehyde	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Glyoxal (ethanedial)	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Heptanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Hexanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Methyl glyoxal (2-oxopropanal or pyruvic aldehyde)	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Nonanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Octanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Pentanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Propanal	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1
Crotonaldehyde	<5.0		5.0		ug/L		02/17/22 09:27	02/18/22 06:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,5-Trifluoroacetophenone (Surr)	*100*		*70 - 130*	*02/17/22 09:27*	*02/18/22 06:03*	*1*

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 13152

Client Sample ID: Finished
Prep Type: Total/NA
Prep Batch: 13102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetaldehyde	<5.1		20.1	18.6		ug/L		93	70 - 130		
Benzaldehyde	<5.1		20.1	19.4		ug/L		97	70 - 130		
Butanal	<5.1		20.1	16.9		ug/L		84	70 - 130		
Cyclohexanone	<5.1		20.1	18.3		ug/L		91	70 - 130		
Decanal	<5.1		20.1	16.2		ug/L		81	70 - 130		
Formaldehyde	<5.1		20.1	23.1		ug/L		105	70 - 130		

Method: 556 - Carbonyl Compounds (GC) (Continued)

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 13152

Client Sample ID: Finished
Prep Type: Total/NA
Prep Batch: 13102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Glyoxal (ethanedial)	<5.1		20.1	19.6		ug/L		97	70 - 130
Heptanal	<5.1		20.1	17.2		ug/L		86	70 - 130
Hexanal	<5.1		20.1	18.8		ug/L		94	70 - 130
Methyl glyoxal (2-oxopropanal or pyruvic aldehyde)	<5.1		20.1	17.5		ug/L		87	70 - 130
Nonanal	<5.1		20.1	15.8		ug/L		79	70 - 130
Octanal	<5.1		20.1	19.6		ug/L		97	70 - 130
Pentanal	<5.1		20.1	17.9		ug/L		89	70 - 130
Propanal	<5.1		20.1	18.1		ug/L		90	70 - 130
Crotonaldehyde	<5.1		20.1	19.0		ug/L		94	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,5-Trifluoroacetophenone (Surr)	*99*		*70 - 130*

Lab Sample ID: 810-14575-1 MSD
Matrix: Drinking Water
Analysis Batch: 13152

Client Sample ID: Finished
Prep Type: Total/NA
Prep Batch: 13102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetaldehyde	<5.1		20.0	17.1		ug/L		85	70 - 130	9	30
Benzaldehyde	<5.1		20.0	18.8		ug/L		94	70 - 130	3	30
Butanal	<5.1		20.0	16.4		ug/L		82	70 - 130	3	30
Cyclohexanone	<5.1		20.0	17.9		ug/L		89	70 - 130	3	30
Decanal	<5.1		20.0	16.2		ug/L		81	70 - 130	0	30
Formaldehyde	<5.1		20.0	22.0		ug/L		100	70 - 130	5	30
Glyoxal (ethanedial)	<5.1		20.0	22.4		ug/L		112	70 - 130	13	30
Heptanal	<5.1		20.0	17.8		ug/L		89	70 - 130	3	30
Hexanal	<5.1		20.0	17.2		ug/L		86	70 - 130	9	30
Methyl glyoxal (2-oxopropanal or pyruvic aldehyde)	<5.1		20.0	17.8		ug/L		89	70 - 130	2	30
Nonanal	<5.1		20.0	16.0		ug/L		80	70 - 130	1	30
Octanal	<5.1		20.0	23.8		ug/L		119	70 - 130	19	30
Pentanal	<5.1		20.0	17.3		ug/L		86	70 - 130	4	30
Propanal	<5.1		20.0	17.7		ug/L		88	70 - 130	2	30
Crotonaldehyde	<5.1		20.0	19.2		ug/L		96		1	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,5-Trifluoroacetophenone (Surr)	*102*		*70 - 130*

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Lab Sample ID: MB 810-12788/11
Matrix: Drinking Water
Analysis Batch: 12788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	<0.020		0.020		ug/L			02/11/22 16:41	1

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography) (Continued)

Lab Sample ID: LCS 810-12788/12
Matrix: Drinking Water
Analysis Batch: 12788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	1.00	0.981		ug/L		98	90 - 110

Method: 531.2 LL - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 810-13395/1-A
Matrix: Drinking Water
Analysis Batch: 13509

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3-Hydroxycarbofuran	<0.10		0.10	ug/L			02/24/22 15:08	1
Aldicarb sulfoxide	<0.10		0.10	ug/L			02/24/22 15:08	1
Methiocarb	<1.0		1.0	ug/L			02/24/22 15:08	1
Aldicarb sulfone	<0.10		0.10	ug/L			02/24/22 15:08	1
Aldicarb	<0.10		0.10	ug/L			02/24/22 15:08	1
Oxamyl	<0.10		0.10	ug/L			02/24/22 15:08	1
Methomyl	<0.10		0.10	ug/L			02/24/22 15:08	1
Carbofuran	<0.10		0.10	ug/L			02/24/22 15:08	1
Carbaryl	<0.10		0.10	ug/L			02/24/22 15:08	1
Propoxur	<0.10		0.10	ug/L			02/24/22 15:08	1
1-Naphthol	<1.0		1.0	ug/L			02/24/22 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*91*		*70 - 130*		*02/24/22 15:08*	*1*

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 13509

Client Sample ID: Finished
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Hydroxycarbofuran	<0.10		2.00	1.80		ug/L		90	70 - 130
Aldicarb sulfoxide	<0.10		2.00	1.79		ug/L		89	70 - 130
Methiocarb	<1.0		2.00	1.69		ug/L		85	70 - 130
Aldicarb sulfone	<0.10		2.00	1.71		ug/L		85	70 - 130
Aldicarb	<0.10		2.00	1.71		ug/L		85	70 - 130
Oxamyl	<0.10		2.00	1.67		ug/L		83	70 - 130
Methomyl	<0.10		2.00	1.67		ug/L		83	70 - 130
Carbofuran	<0.10		2.00	1.73		ug/L		87	70 - 130
Carbaryl	<0.10		2.06	1.80		ug/L		87	70 - 130
Propoxur	<0.10		2.00	1.72		ug/L		86	70 - 130
1-Naphthol	<1.0		2.00	1.74		ug/L		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*96*		*70 - 130*

Method: 531.2 LL - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: 810-14575-1 MSD
Matrix: Drinking Water
Analysis Batch: 13509

Client Sample ID: Finished
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3-Hydroxycarbofuran	<0.10		2.00	2.01		ug/L		101	70 - 130	11	30
Aldicarb sulfoxide	<0.10		2.00	1.97		ug/L		98	70 - 130	10	30
Methiocarb	<1.0		2.00	1.94		ug/L		97	70 - 130	14	30
Aldicarb sulfone	<0.10		2.00	1.92		ug/L		96	70 - 130	12	30
Aldicarb	<0.10		2.00	1.96		ug/L		98	70 - 130	14	30
Oxamyl	<0.10		2.00	1.89		ug/L		94	70 - 130	12	30
Methomyl	<0.10		2.00	1.86		ug/L		93	70 - 130	11	30
Carbofuran	<0.10		2.00	1.95		ug/L		97	70 - 130	12	30
Carbaryl	<0.10		2.06	2.02		ug/L		98	70 - 130	11	30
Propoxur	<0.10		2.00	1.92		ug/L		96	70 - 130	11	30
1-Naphthol	<1.0		2.00	1.93		ug/L		96	70 - 130	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*96*		*70 - 130*

Method: 549.2 - Diquat and Paraquat (HPLC)

Lab Sample ID: MB 810-12920/2-A
Matrix: Drinking Water
Analysis Batch: 13109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12920

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Paraquat	<0.40		0.40		ug/L		02/15/22 08:19	02/17/22 11:24	1
Diquat	<0.40		0.40		ug/L		02/15/22 08:19	02/17/22 11:24	1

Lab Sample ID: LCS 810-12920/1-A
Matrix: Drinking Water
Analysis Batch: 13109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12920

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Paraquat			5.00	4.20		ug/L		84	70 - 130		
Diquat			5.00	4.50		ug/L		90	70 - 130		

Lab Sample ID: LLCS 810-12920/3-A
Matrix: Drinking Water
Analysis Batch: 13109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12920

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Paraquat			0.400	0.756		ug/L		189			
Diquat			0.400	0.422		ug/L		106	21 - 161		

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: MBL 810-12724/12
Matrix: Drinking Water
Analysis Batch: 12724

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.012		0.050		ug/L			02/11/22 20:05	1

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: LCS 810-12724/14
Matrix: Drinking Water
Analysis Batch: 12724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	5.00	4.74		ug/L		95	80 - 120

Lab Sample ID: LLCS 810-12724/13
Matrix: Drinking Water
Analysis Batch: 12724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0467	J	ug/L		93	50 - 150

Method: L231 - Algal Toxins (LC/ESI/MS/MS)

Lab Sample ID: MB 810-13068/9
Matrix: Drinking Water
Analysis Batch: 13068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anatoxin-a	<0.020		0.020		ug/L			02/18/22 13:38	1
Cylindrospermopsin	<0.050		0.050		ug/L			02/18/22 13:38	1
Microcystin-LA	<0.10		0.10		ug/L			02/18/22 13:38	1
Microcystin-LF	<0.10		0.10		ug/L			02/18/22 13:38	1
Microcystin- LR	<0.10		0.10		ug/L			02/18/22 13:38	1
Microcystin-LY	<0.10		0.10		ug/L			02/18/22 13:38	1
Microcystin-RR	<0.10		0.10		ug/L			02/18/22 13:38	1
Microcystin-YR	<0.10		0.10		ug/L			02/18/22 13:38	1
Nodularin	<0.10		0.10		ug/L			02/18/22 13:38	1

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS)

Lab Sample ID: MB 810-13122/10
Matrix: Drinking Water
Analysis Batch: 13122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aldicarb sulfoxide	<0.50		0.50		ug/L			02/17/22 21:55	1
Aldicarb sulfone	<0.50		0.50		ug/L			02/17/22 21:55	1
Azoxystrobin	<0.50		0.50		ug/L			02/17/22 21:55	1
Baygon	<0.050		0.050		ug/L			02/17/22 21:55	1
Bendiocarb	<0.050		0.050		ug/L			02/17/22 21:55	1
Bensulide	<0.050		0.050		ug/L			02/17/22 21:55	1
Bentazon	<0.050		0.050		ug/L			02/17/22 21:55	1
Bispyribac sodium	<0.50		0.50		ug/L			02/17/22 21:55	1
Boscalid	<0.050		0.050		ug/L			02/17/22 21:55	1
Carbaryl	<0.050		0.050		ug/L			02/17/22 21:55	1
Carbofuran	<0.050		0.050		ug/L			02/17/22 21:55	1
Carfentrazone-ethyl	<0.050		0.050		ug/L			02/17/22 21:55	1
Chlorotoluron	<0.050		0.050		ug/L			02/17/22 21:55	1
Clomazone	<0.050		0.050		ug/L			02/17/22 21:55	1
Clopyralid	<0.50		0.50		ug/L			02/17/22 21:55	1
Clothianidin	<0.050		0.050		ug/L			02/17/22 21:55	1
Cyazofamid	<0.050		0.050		ug/L			02/17/22 21:55	1

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS) (Continued)

Lab Sample ID: MB 810-13122/10
Matrix: Drinking Water
Analysis Batch: 13122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Dichlorvos	<0.050		0.050		ug/L			02/17/22 21:55	1
Diflubenzuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Diuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Fenamiphos Sulfone	<0.050		0.050		ug/L			02/17/22 21:55	1
Fenamiphos Sulfoxide	<0.050		0.050		ug/L			02/17/22 21:55	1
Fenuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Fludioxonil	<0.050		0.050		ug/L			02/17/22 21:55	1
Fluometuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Fluoxastrobin	<0.050		0.050		ug/L			02/17/22 21:55	1
Halofenozide	<0.050		0.050		ug/L			02/17/22 21:55	1
Halosulfuron-methyl	<0.050		0.050		ug/L			02/17/22 21:55	1
3-Hydroxycarbofuran	<0.050		0.050		ug/L			02/17/22 21:55	1
Imazapic	<0.050		0.050		ug/L			02/17/22 21:55	1
Imidacloprid	<0.050		0.050		ug/L			02/17/22 21:55	1
Indaziflam	<0.050		0.050		ug/L			02/17/22 21:55	1
Isoproturon	<0.050		0.050		ug/L			02/17/22 21:55	1
Linuron	<0.50		0.50		ug/L			02/17/22 21:55	1
Metalaxyl, total	<0.050		0.050		ug/L			02/17/22 21:55	1
Methiocarb	<0.050		0.050		ug/L			02/17/22 21:55	1
Methomyl	<0.050		0.050		ug/L			02/17/22 21:55	1
Methoxyfenozide	<0.050		0.050		ug/L			02/17/22 21:55	1
Monothiuram	<0.50		0.50		ug/L			02/17/22 21:55	1
Monuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Neburon	<0.050		0.050		ug/L			02/17/22 21:55	1
Oryzalin	<0.50		0.50		ug/L			02/17/22 21:55	1
Oxadiazon	<0.050		0.050		ug/L			02/17/22 21:55	1
Oxamyl	<0.50		0.50		ug/L			02/17/22 21:55	1
Paclobutrazol	<0.050		0.050		ug/L			02/17/22 21:55	1
Prodiamine	<0.50		0.50		ug/L			02/17/22 21:55	1
Propamocarb	<0.50		0.50		ug/L			02/17/22 21:55	1
Propanil	<0.050		0.050		ug/L			02/17/22 21:55	1
Propargite	<0.050		0.050		ug/L			02/17/22 21:55	1
Pyraclostrobin	<0.050		0.050		ug/L			02/17/22 21:55	1
Quinclorac	<0.050		0.050		ug/L			02/17/22 21:55	1
Siduron, total	<0.050		0.050		ug/L			02/17/22 21:55	1
Tebuthiuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Thiencarbazone-methyl	<0.050		0.050		ug/L			02/17/22 21:55	1
Thidiazuron	<0.050		0.050		ug/L			02/17/22 21:55	1
Thiophanate-Methyl	<0.050		0.050		ug/L			02/17/22 21:55	1
Triadimefon	<0.050		0.050		ug/L			02/17/22 21:55	1
Triadimenol, total	<0.050		0.050		ug/L			02/17/22 21:55	1
Trichlorfon	<0.050		0.050		ug/L			02/17/22 21:55	1
Trifloxystrobin	<0.050		0.050		ug/L			02/17/22 21:55	1

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS) (Continued)

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 13122

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldicarb sulfoxide	<0.50		10.0	10.2		ug/L		102	70 - 130
Aldicarb sulfone	<0.50		10.0	10.3		ug/L		103	70 - 130
Azoxystrobin	<0.50		10.0	10.2		ug/L		102	70 - 130
Baygon	<0.050		1.00	1.06		ug/L		106	70 - 130
Bendiocarb	<0.050		1.00	1.04		ug/L		104	70 - 130
Bensulide	<0.050		1.00	0.989		ug/L		99	70 - 130
Bentazon	<0.050		1.00	0.843		ug/L		84	70 - 130
Bispyribac sodium	<0.50		10.0	9.26		ug/L		93	70 - 130
Boscalid	<0.050		1.00	1.05		ug/L		105	70 - 130
Carbaryl	<0.050		1.00	1.05		ug/L		105	70 - 130
Carbofuran	<0.050		1.00	0.999		ug/L		100	70 - 130
Carfentrazone-ethyl	<0.050		1.00	0.997		ug/L		100	70 - 130
Chlorotoluron	<0.050		1.00	1.05		ug/L		105	70 - 130
Clomazone	<0.050		1.00	1.01		ug/L		101	70 - 130
Clopyralid	<0.50		10.0	9.86		ug/L		99	70 - 130
Clothianidin	<0.050		1.00	1.03		ug/L		103	70 - 130
Cyazofamid	<0.050		1.00	1.07		ug/L		107	70 - 130
Dichlorvos	<0.050		1.00	1.01		ug/L		101	70 - 130
Diflubenzuron	<0.050		1.00	1.04		ug/L		104	70 - 130
Diuron	<0.050		1.00	1.04		ug/L		104	70 - 130
Fenamiphos Sulfone	<0.050		1.00	1.00		ug/L		100	70 - 130
Fenamiphos Sulfoxide	<0.050		1.00	1.01		ug/L		101	70 - 130
Fenuron	<0.050		1.00	0.955		ug/L		96	70 - 130
Fludioxonil	<0.050		1.00	0.955		ug/L		95	70 - 130
Fluometuron	<0.050		1.00	1.01		ug/L		101	70 - 130
Fluoxastrobin	<0.050		1.00	1.03		ug/L		103	70 - 130
Halofenozide	<0.050		1.00	1.03		ug/L		103	70 - 130
Halosulfuron-methyl	<0.050		1.00	0.984		ug/L		98	70 - 130
3-Hydroxycarbofuran	<0.050		1.00	1.03		ug/L		103	70 - 130
Imazapic	<0.050		1.00	0.843		ug/L		84	70 - 130
Imidacloprid	<0.050		1.00	1.13		ug/L		113	70 - 130
Indaziflam	<0.050		1.00	1.04		ug/L		104	70 - 130
Isoproturon	<0.050		1.00	1.06		ug/L		106	70 - 130
Linuron	<0.50		10.0	9.34		ug/L		93	70 - 130
Metalaxyl, total	<0.050		1.00	1.01		ug/L		101	70 - 130
Methiocarb	<0.050		1.00	1.06		ug/L		106	70 - 130
Methomyl	<0.050		1.00	0.967		ug/L		97	70 - 130
Methoxyfenozide	<0.050		1.00	0.963		ug/L		96	70 - 130
Monothiuram	<0.50		10.0	10.1		ug/L		101	70 - 130
Monuron	<0.050		1.00	1.02		ug/L		102	70 - 130
Neburon	<0.050		1.00	1.06		ug/L		106	70 - 130
Oryzalin	<0.50		10.0	8.56		ug/L		86	70 - 130
Oxadiazon	<0.050		1.00	1.04		ug/L		104	70 - 130
Oxamyl	<0.50		10.0	10.1		ug/L		101	70 - 130
Paclobutrazol	<0.050		1.00	1.03		ug/L		103	70 - 130
Prodiamine	<0.50		10.0	10.1		ug/L		101	70 - 130
Propamocarb	<0.50		10.0	10.8		ug/L		108	70 - 130
Propanil	<0.050		1.00	0.989		ug/L		99	70 - 130

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS) (Continued)

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 13122

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Propargite	<0.050		1.00	0.916		ug/L		92	70 - 130
Pyraclostrobin	<0.050		1.00	1.01		ug/L		101	70 - 130
Quinclorac	<0.050		1.00	1.05		ug/L		105	70 - 130
Siduron, total	<0.050		1.00	1.06		ug/L		106	70 - 130
Tebuthiuron	<0.050		1.00	0.996		ug/L		100	70 - 130
Thiencarbazone-methyl	<0.050		1.00	1.04		ug/L		104	70 - 130
Thidiazuron	<0.050		1.00	1.01		ug/L		101	70 - 130
Thiophanate-Methyl	<0.050		1.00	1.05		ug/L		105	70 - 130
Triadimefon	<0.050		1.00	1.04		ug/L		104	70 - 130
Triadimenol, total	<0.050		1.00	1.05		ug/L		105	70 - 130
Trichlorfon	<0.050		1.00	1.01		ug/L		101	70 - 130
Trifloxystrobin	<0.050		1.00	0.918		ug/L		92	70 - 130

Lab Sample ID: 810-14575-1 MSD
Matrix: Drinking Water
Analysis Batch: 13122

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldicarb sulfoxide	<0.50		10.0	9.90		ug/L		99	70 - 130	3	30
Aldicarb sulfone	<0.50		10.0	10.0		ug/L		100	70 - 130	3	30
Azoxystrobin	<0.50		10.0	9.92		ug/L		99	70 - 130	3	30
Baygon	<0.050		1.00	1.03		ug/L		103	70 - 130	4	30
Bendiocarb	<0.050		1.00	1.01		ug/L		101	70 - 130	3	30
Bensulide	<0.050		1.00	0.956		ug/L		96	70 - 130	3	30
Bentazon	<0.050		1.00	0.842		ug/L		84	70 - 130	0	30
Bispyribac sodium	<0.50		10.0	9.40		ug/L		94	70 - 130	2	30
Boscalid	<0.050		1.00	1.07		ug/L		107	70 - 130	1	30
Carbaryl	<0.050		1.00	1.03		ug/L		103	70 - 130	3	30
Carbofuran	<0.050		1.00	0.990		ug/L		99	70 - 130	1	30
Carfentrazone-ethyl	<0.050		1.00	0.991		ug/L		99	70 - 130	1	30
Chlorotoluron	<0.050		1.00	1.05		ug/L		105	70 - 130	0	30
Clomazone	<0.050		1.00	0.996		ug/L		100	70 - 130	2	30
Clopyralid	<0.50		10.0	9.71		ug/L		97	70 - 130	2	30
Clothianidin	<0.050		1.00	1.00		ug/L		100	70 - 130	3	30
Cyazofamid	<0.050		1.00	1.03		ug/L		103	70 - 130	3	30
Dichlorvos	<0.050		1.00	0.996		ug/L		100	70 - 130	1	30
Diflubenzuron	<0.050		1.00	1.03		ug/L		103	70 - 130	1	30
Diuron	<0.050		1.00	1.03		ug/L		103	70 - 130	1	30
Fenamiphos Sulfone	<0.050		1.00	0.991		ug/L		99	70 - 130	1	30
Fenamiphos Sulfoxide	<0.050		1.00	0.988		ug/L		99	70 - 130	2	30
Fenuron	<0.050		1.00	0.943		ug/L		94	70 - 130	1	30
Fludioxonil	<0.050		1.00	0.935		ug/L		94	70 - 130	2	30
Fluometuron	<0.050		1.00	0.999		ug/L		100	70 - 130	1	30
Fluoxastrobin	<0.050		1.00	1.01		ug/L		101	70 - 130	2	30
Halofenozide	<0.050		1.00	1.03		ug/L		103	70 - 130	1	30
Halosulfuron-methyl	<0.050		1.00	0.969		ug/L		97	70 - 130	2	30
3-Hydroxycarbofuran	<0.050		1.00	1.02		ug/L		102	70 - 130	1	30
Imazapic	<0.050		1.00	0.872		ug/L		87	70 - 130	3	30
Imidacloprid	<0.050		1.00	1.12		ug/L		112	70 - 130	1	30

Method: L306 - Selected Turfgrass Pesticides (LC/MS/MS) (Continued)

Lab Sample ID: 810-14575-1 MSD
Matrix: Drinking Water
Analysis Batch: 13122

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indaziflam	<0.050		1.00	1.02		ug/L		102	70 - 130	2	30
Isoproturon	<0.050		1.00	1.02		ug/L		102	70 - 130	4	30
Linuron	<0.50		10.0	9.56		ug/L		96	70 - 130	2	30
Metalaxyl, total	<0.050		1.00	0.983		ug/L		98	70 - 130	3	30
Methiocarb	<0.050		1.00	1.03		ug/L		103	70 - 130	3	30
Methomyl	<0.050		1.00	0.964		ug/L		96	70 - 130	0	30
Methoxyfenozide	<0.050		1.00	0.950		ug/L		95	70 - 130	1	30
Monothiuram	<0.50		10.0	10.1		ug/L		101	70 - 130	1	30
Monuron	<0.050		1.00	1.00		ug/L		100	70 - 130	2	30
Neburon	<0.050		1.00	1.04		ug/L		104	70 - 130	2	30
Oryzalin	<0.50		10.0	8.45		ug/L		85	70 - 130	1	30
Oxadiazon	<0.050		1.00	1.01		ug/L		101	70 - 130	3	30
Oxamyl	<0.50		10.0	9.88		ug/L		99	70 - 130	2	30
Paclobutrazol	<0.050		1.00	0.993		ug/L		99	70 - 130	4	30
Prodiamine	<0.50		10.0	9.79		ug/L		98	70 - 130	3	30
Propamocarb	<0.50		10.0	10.5		ug/L		105	70 - 130	3	30
Propanil	<0.050		1.00	1.01		ug/L		101	70 - 130	2	30
Propargite	<0.050		1.00	0.860		ug/L		86	70 - 130	6	30
Pyraclostrobin	<0.050		1.00	0.978		ug/L		98	70 - 130	3	30
Quinclorac	<0.050		1.00	1.02		ug/L		102	70 - 130	2	30
Siduron, total	<0.050		1.00	1.04		ug/L		104	70 - 130	2	30
Tebuthiuron	<0.050		1.00	0.969		ug/L		97	70 - 130	3	30
Thiencarbazone-methyl	<0.050		1.00	1.02		ug/L		102	70 - 130	2	30
Thidiazuron	<0.050		1.00	0.976		ug/L		98	70 - 130	3	30
Thiophanate-Methyl	<0.050		1.00	1.03		ug/L		103	70 - 130	2	30
Triadimefon	<0.050		1.00	1.02		ug/L		102	70 - 130	2	30
Triadimenol, total	<0.050		1.00	1.02		ug/L		102	70 - 130	3	30
Trichlorfon	<0.050		1.00	0.981		ug/L		98	70 - 130	2	30
Trifloxystrobin	<0.050		1.00	0.899		ug/L		90	70 - 130	2	30

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS

Lab Sample ID: MBL 810-13091/1-A
Matrix: Drinking Water
Analysis Batch: 13136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13091

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<5.0		5.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<5.0		5.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS (Continued)

Lab Sample ID: MBL 810-13091/1-A
Matrix: Drinking Water
Analysis Batch: 13136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13091

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorobutanoic acid (PFBA)	<5.0		5.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<5.0		5.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)	<5.0		5.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<5.0		5.0		ng/L		02/17/22 07:50	02/18/22 21:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		02/17/22 07:50	02/18/22 21:30	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*			*02/17/22 07:50*	*02/18/22 21:30*	*1*
13C5 PFPeA	*88*			*02/17/22 07:50*	*02/18/22 21:30*	*1*
13C2 PFHxA	*93*			*02/17/22 07:50*	*02/18/22 21:30*	*1*
13C4 PFHpA	*91*			*02/17/22 07:50*	*02/18/22 21:30*	*1*

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS (Continued)

Lab Sample ID: MBL 810-13091/1-A
Matrix: Drinking Water
Analysis Batch: 13136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13091

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFOA	80			02/17/22 07:50	02/18/22 21:30	1
13C9 PFNA	62			02/17/22 07:50	02/18/22 21:30	1
13C2 PFDA	48			02/17/22 07:50	02/18/22 21:30	1
13C7 PFUnA	40			02/17/22 07:50	02/18/22 21:30	1
13C2 PFDoA	34			02/17/22 07:50	02/18/22 21:30	1
13C2 PFTeDA	39			02/17/22 07:50	02/18/22 21:30	1
13C2 PFHxDA	63			02/17/22 07:50	02/18/22 21:30	1
13C3 PFBS	102			02/17/22 07:50	02/18/22 21:30	1
13C3 PFHxS	91			02/17/22 07:50	02/18/22 21:30	1
13C4 PFOS	49			02/17/22 07:50	02/18/22 21:30	1
NMeFOSAA-d3	34			02/17/22 07:50	02/18/22 21:30	1
NEtFOSAA-d5	39			02/17/22 07:50	02/18/22 21:30	1
13C8-PFOSA	41			02/17/22 07:50	02/18/22 21:30	1
NMeFOSA-d3	19			02/17/22 07:50	02/18/22 21:30	1
NEtFOSA-d5	24			02/17/22 07:50	02/18/22 21:30	1
NMeFOSE-d7	30			02/17/22 07:50	02/18/22 21:30	1
NEtFOSE-d9	28			02/17/22 07:50	02/18/22 21:30	1
13C2-4:2-FTS	80			02/17/22 07:50	02/18/22 21:30	1
13C2-6:2-FTS	86			02/17/22 07:50	02/18/22 21:30	1
13C2-8:2-FTS	53			02/17/22 07:50	02/18/22 21:30	1
13C3 HFPO-DA	84			02/17/22 07:50	02/18/22 21:30	1

Lab Sample ID: LLCS 810-13091/2-A
Matrix: Drinking Water
Analysis Batch: 13136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13091

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	1.86	<1.9		ng/L		70	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	4.67	<4.7		ng/L		92	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.67	5.47		ng/L		117	50 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.87	<1.9		ng/L		89	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.87	<1.9		ng/L		95	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.87	<1.9		ng/L		94	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.87	<1.9		ng/L		95	50 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.87	<1.9		ng/L		92	50 - 150
Perfluoropentanoic acid (PFPeA)	1.87	<1.9		ng/L		101	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.87	<1.9		ng/L		87	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.87	2.07		ng/L		111	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.87	<1.9		ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	1.87	<1.9		ng/L		96	50 - 150

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS (Continued)

Lab Sample ID: LLCS 810-13091/2-A
Matrix: Drinking Water
Analysis Batch: 13136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13091

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanoic acid (PFDoA)	1.87	<1.9		ng/L		94	50 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.87	<1.9		ng/L		96	50 - 150
Perfluorooctanoic acid (PFOA)	1.87	<1.9		ng/L		99	50 - 150
Perfluorodecanoic acid (PFDA)	1.87	<1.9		ng/L		95	50 - 150
Perfluorodecanesulfonic acid (PFDS)	1.86	<1.9		ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.87	<1.9		ng/L		93	50 - 150
Perfluorobutanoic acid (PFBA)	4.67	<4.7		ng/L		96	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.87	<1.9		ng/L		97	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.87	<1.9		ng/L		95	50 - 150
Perfluoroheptanesulfonic Acid (PFHpS)	1.87	<1.9		ng/L		81	50 - 150
Perfluorononanoic acid (PFNA)	1.87	<1.9		ng/L		93	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.87	<1.9		ng/L		101	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.67	<4.7		ng/L		86	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.87	2.17		ng/L		116	50 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.87	<1.9		ng/L		98	50 - 150
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.87	2.10		ng/L		113	50 - 150
Perfluorononanesulfonic acid (PFNS)	1.86	<1.9		ng/L		73	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.87	<1.9		ng/L		76	40 - 160
Perfluorooctanesulfonamide (PFOSA)	1.87	<1.9		ng/L		93	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	1.87	<1.9		ng/L		66	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.87	2.08		ng/L		111	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	1.86	<1.9		ng/L		79	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	1.87	<1.9		ng/L		77	40 - 160
Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)	4.67	<4.7		ng/L		99	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.67	<4.7		ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.86	<1.9		ng/L		97	50 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*98*		
13C5 PFPeA	*94*		
13C2 PFHxA	*97*		
13C4 PFHpA	*97*		
13C2 PFOA	*93*		

Method: L402 - Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS (Continued)

Lab Sample ID: LLCS 810-13091/2-A
Matrix: Drinking Water
Analysis Batch: 13136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13091

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C9 PFNA	*80*		
13C2 PFDA	*64*		
13C7 PFUnA	*48*		
13C2 PFDoA	*41*		
13C2 PFTeDA	*48*		
13C2 PFHxDA	*74*		
13C3 PFBS	*104*		
13C3 PFHxS	*98*		
13C4 PFOS	*67*		
NMeFOSAA-d3	*38*		
NEtFOSAA-d5	*44*		
13C8-PFOSA	*50*		
NMeFOSA-d3	*20*		
NEtFOSA-d5	*24*		
NMeFOSE-d7	*35*		
NEtFOSE-d9	*33*		
13C2-4:2-FTS	*74*		
13C2-6:2-FTS	*86*		
13C2-8:2-FTS	*64*		
13C3 HFPO-DA	*91*		

Method: L520 - Acrylamide, Aniline, and Urethane (LC/ESI/MS/MS)

Lab Sample ID: MB 810-12841/10
Matrix: Drinking Water
Analysis Batch: 12841

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acrylamide	<0.10		0.10		ug/L			02/14/22 14:04	1
Aniline	<0.10		0.10		ug/L			02/14/22 14:04	1
Urethane	<0.20		0.20		ug/L			02/14/22 14:04	1

Lab Sample ID: 810-14575-1 MS
Matrix: Drinking Water
Analysis Batch: 12841

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acrylamide	<0.10		5.00	5.15		ug/L		103	70 - 130		
Aniline	<0.10		5.00	5.27		ug/L		105	70 - 130		
Urethane	<0.20		10.0	10.3		ug/L		103	70 - 130		

Lab Sample ID: 810-14575-1 MSD
Matrix: Drinking Water
Analysis Batch: 12841

Client Sample ID: Finished
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylamide	<0.10		5.00	5.19		ug/L		104	70 - 130	1	30
Aniline	<0.10		5.00	5.32		ug/L		106	70 - 130	1	30
Urethane	<0.20		10.0	10.0		ug/L		100	70 - 130	2	30

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-12959/13
Matrix: Drinking Water
Analysis Batch: 12959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.50		0.50		ug/L			02/15/22 12:09	1
Antimony	<1.0		1.0		ug/L			02/15/22 12:09	1
Uranium	<1.0		1.0		ug/L			02/15/22 12:09	1
Lithium	<2.0		2.0		ug/L			02/15/22 12:09	1
Beryllium	<0.30		0.30		ug/L			02/15/22 12:09	1
Barium	<2.0		2.0		ug/L			02/15/22 12:09	1
Thallium	<0.30		0.30		ug/L			02/15/22 12:09	1
Molybdenum	<2.0		2.0		ug/L			02/15/22 12:09	1
Thorium	<1.0		1.0		ug/L			02/15/22 12:09	1
Nickel	<1.0		1.0		ug/L			02/15/22 12:09	1
Vanadium	<2.0		2.0		ug/L			02/15/22 12:09	1
Silver	<0.50		0.50		ug/L			02/15/22 12:09	1
Strontium	<2.0		2.0		ug/L			02/15/22 12:09	1
Arsenic	<1.0		1.0		ug/L			02/15/22 12:09	1
Copper	<1.0		1.0		ug/L			02/15/22 12:09	1
Boron	<5.0		5.0		ug/L			02/15/22 12:09	1
Aluminum	<2.0		2.0		ug/L			02/15/22 12:09	1
Lead	<0.50		0.50		ug/L			02/15/22 12:09	1
Zinc	<5.0		5.0		ug/L			02/15/22 12:09	1
Tin	<1.0		1.0		ug/L			02/15/22 12:09	1
Selenium	<2.0		2.0		ug/L			02/15/22 12:09	1
Manganese	<2.0		2.0		ug/L			02/15/22 12:09	1
Chromium	<0.90		0.90		ug/L			02/15/22 12:09	1
Cobalt	<2.0		2.0		ug/L			02/15/22 12:09	1
Titanium	<5.0		5.0		ug/L			02/15/22 12:09	1

Lab Sample ID: LCS 810-12959/16
Matrix: Drinking Water
Analysis Batch: 12959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			50.0	51.5		ug/L		103	85 - 115		
Antimony			50.0	51.2		ug/L		102	85 - 115		
Uranium			50.0	50.9		ug/L		102	85 - 115		
Lithium			50.0	54.3		ug/L		109	85 - 115		
Beryllium			50.0	51.2		ug/L		102	85 - 115		
Barium			50.0	50.4		ug/L		101	85 - 115		
Thallium			50.0	50.9		ug/L		102	85 - 115		
Molybdenum			50.0	51.4		ug/L		103	85 - 115		
Thorium			50.0	49.3		ug/L		99	85 - 115		
Nickel			50.0	51.8		ug/L		104	85 - 115		
Vanadium			50.0	52.1		ug/L		104	85 - 115		
Silver			50.0	51.4		ug/L		103	85 - 115		
Strontium			50.0	52.0		ug/L		104	85 - 115		
Arsenic			50.0	51.2		ug/L		102	85 - 115		
Copper			50.0	54.0		ug/L		108	85 - 115		
Boron			50.0	50.5		ug/L		101	85 - 115		
Aluminum			50.0	55.2		ug/L		110	85 - 115		
Lead			50.0	54.3		ug/L		109	85 - 115		

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 810-12959/16
Matrix: Drinking Water
Analysis Batch: 12959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50.0	53.8		ug/L		108	85 - 115
Tin	50.0	51.1		ug/L		102	85 - 115
Selenium	50.0	51.1		ug/L		102	85 - 115
Manganese	50.0	51.5		ug/L		103	85 - 115
Chromium	50.0	51.7		ug/L		103	85 - 115
Cobalt	50.0	51.2		ug/L		102	85 - 115
Titanium	50.0	51.6		ug/L		103	85 - 115

Lab Sample ID: LLCS 810-12959/12
Matrix: Drinking Water
Analysis Batch: 12959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.795	J	ug/L		80	50 - 150
Uranium	1.00	0.792	J	ug/L		79	50 - 150
Lithium	1.00	0.882	J	ug/L		88	50 - 150
Barium	1.00	0.833	J	ug/L		83	50 - 150
Molybdenum	1.00	0.814	J	ug/L		81	50 - 150
Thorium	1.00	0.732	J	ug/L		73	50 - 150
Nickel	1.00	0.830	J	ug/L		83	50 - 150
Vanadium	1.00	0.817	J	ug/L		82	50 - 150
Strontium	1.00	0.902	J	ug/L		90	50 - 150
Arsenic	1.00	<0.89		ug/L		82	50 - 150
Copper	1.00	0.855	J	ug/L		86	50 - 150
Boron	1.00	<2.4		ug/L		93	50 - 150
Aluminum	1.00	<1.5		ug/L		78	50 - 150
Zinc	1.00	<2.3		ug/L		88	50 - 150
Tin	1.00	0.796	J	ug/L		80	50 - 150
Selenium	1.00	<1.6		ug/L		94	50 - 150
Manganese	1.00	0.840	J	ug/L		84	50 - 150
Cobalt	1.00	0.805	J	ug/L		81	50 - 150
Titanium	1.00	0.830	J	ug/L		83	50 - 150

Lab Sample ID: LLCS 810-12959/14
Matrix: Drinking Water
Analysis Batch: 12959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.300	0.230	J	ug/L		77	50 - 150
Antimony	0.300	0.301	J	ug/L		100	50 - 150
Uranium	0.300	0.302	J	ug/L		101	50 - 150
Lithium	0.300	0.341	J	ug/L		114	50 - 150
Beryllium	0.300	0.332		ug/L		111	50 - 150
Barium	0.300	0.290	J	ug/L		97	50 - 150
Thallium	0.300	0.302		ug/L		101	50 - 150
Molybdenum	0.300	0.316	J	ug/L		105	50 - 150
Thorium	0.300	0.202	J	ug/L		67	50 - 150
Nickel	0.300	0.331	J	ug/L		110	50 - 150
Vanadium	0.300	0.305	J	ug/L		102	50 - 150

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 810-12959/14
Matrix: Drinking Water
Analysis Batch: 12959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.300	0.291	J	ug/L		97	50 - 150
Strontium	0.300	0.338	J	ug/L		113	50 - 150
Arsenic	0.300	<0.89		ug/L		99	50 - 150
Copper	0.300	<0.55		ug/L		109	50 - 150
Aluminum	0.300	<1.5		ug/L		90	50 - 150
Lead	0.300	0.328	J	ug/L		109	50 - 150
Zinc	0.300	<2.3		ug/L		107	50 - 150
Tin	0.300	0.278	J	ug/L		93	50 - 150
Manganese	0.300	0.323	J	ug/L		108	50 - 150
Chromium	0.300	0.311	J	ug/L		104	50 - 150
Cobalt	0.300	0.309	J	ug/L		103	50 - 150
Titanium	0.300	<0.70		ug/L		103	50 - 150

QC Association Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

GC/MS VOA

Analysis Batch: 12825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	524.3	
MB 810-12825/14	Method Blank	Total/NA	Drinking Water	524.3	
810-14575-1 MS	Finished	Total/NA	Drinking Water	524.3	

Analysis Batch: 13258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	524.2	
MB 810-13258/6	Method Blank	Total/NA	Drinking Water	524.2	

GC/MS Semi VOA

Prep Batch: 13012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	525.2	
MB 810-13012/1-A	Method Blank	Total/NA	Drinking Water	525.2	
LCS 810-13012/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	
LCS 810-13012/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2	
LCS 810-13012/4-A	Lab Control Sample	Total/NA	Drinking Water	525.2	

Analysis Batch: 13245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	525.2 Ext	13012
MB 810-13012/1-A	Method Blank	Total/NA	Drinking Water	525.2 Ext	13012
LCS 810-13012/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2 Ext	13012
LCS 810-13012/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2 Ext	13012
LCS 810-13012/4-A	Lab Control Sample	Total/NA	Drinking Water	525.2 Ext	13012

Prep Batch: 13289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	522	
MB 810-13289/1-A	Method Blank	Total/NA	Drinking Water	522	
LLCS 810-13289/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 13334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	522	13289
MB 810-13289/1-A	Method Blank	Total/NA	Drinking Water	522	13289
LLCS 810-13289/2-A	Lab Control Sample	Total/NA	Drinking Water	522	13289

GC Semi VOA

Prep Batch: 13087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	515.3	
MB 810-13087/1-B	Method Blank	Total/NA	Drinking Water	515.3	
LCS 810-13087/5-B	Lab Control Sample	Total/NA	Drinking Water	515.3	
LCS 810-13087/6-B	Lab Control Sample	Total/NA	Drinking Water	515.3	
LCS 810-13087/7-B	Lab Control Sample	Total/NA	Drinking Water	515.3	
LCS 810-13087/8-B	Lab Control Sample	Total/NA	Drinking Water	515.3	
LLCS 810-13087/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	

GC Semi VOA

Prep Batch: 13102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	556	
MB 810-13102/1-A	Method Blank	Total/NA	Drinking Water	556	
810-14575-1 MS	Finished	Total/NA	Drinking Water	556	
810-14575-1 MSD	Finished	Total/NA	Drinking Water	556	

Cleanup Batch: 13119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	Aliquot	13087
MB 810-13087/1-B	Method Blank	Total/NA	Drinking Water	Aliquot	13087
LCS 810-13087/5-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	13087
LCS 810-13087/6-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	13087
LCS 810-13087/7-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	13087
LCS 810-13087/8-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	13087
LLCS 810-13087/2-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	13087

Analysis Batch: 13152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	556	13102
MB 810-13102/1-A	Method Blank	Total/NA	Drinking Water	556	13102
810-14575-1 MS	Finished	Total/NA	Drinking Water	556	13102
810-14575-1 MSD	Finished	Total/NA	Drinking Water	556	13102

Analysis Batch: 13246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	515.3	13119
MB 810-13087/1-B	Method Blank	Total/NA	Drinking Water	515.3	13119
LCS 810-13087/5-B	Lab Control Sample	Total/NA	Drinking Water	515.3	13119
LCS 810-13087/6-B	Lab Control Sample	Total/NA	Drinking Water	515.3	13119
LCS 810-13087/7-B	Lab Control Sample	Total/NA	Drinking Water	515.3	13119
LCS 810-13087/8-B	Lab Control Sample	Total/NA	Drinking Water	515.3	13119
LLCS 810-13087/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	13119

HPLC/IC

Analysis Batch: 12788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	218.6	
MB 810-12788/11	Method Blank	Total/NA	Drinking Water	218.6	
LCS 810-12788/12	Lab Control Sample	Total/NA	Drinking Water	218.6	

Prep Batch: 12920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	549.2	
MB 810-12920/2-A	Method Blank	Total/NA	Drinking Water	549.2	
LCS 810-12920/1-A	Lab Control Sample	Total/NA	Drinking Water	549.2	
LLCS 810-12920/3-A	Lab Control Sample	Total/NA	Drinking Water	549.2	

Analysis Batch: 13109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	549.2	12920
MB 810-12920/2-A	Method Blank	Total/NA	Drinking Water	549.2	12920

HPLC/IC (Continued)

Analysis Batch: 13109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 810-12920/1-A	Lab Control Sample	Total/NA	Drinking Water	549.2	12920
LLCS 810-12920/3-A	Lab Control Sample	Total/NA	Drinking Water	549.2	12920

Filtration Batch: 13395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Dissolved	Drinking Water	Filtration	
MB 810-13395/1-A	Method Blank	Dissolved	Drinking Water	Filtration	
810-14575-1 MS	Finished	Dissolved	Drinking Water	Filtration	
810-14575-1 MSD	Finished	Dissolved	Drinking Water	Filtration	

Analysis Batch: 13509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Dissolved	Drinking Water	531.2 LL	13395
MB 810-13395/1-A	Method Blank	Dissolved	Drinking Water	531.2 LL	13395
810-14575-1 MS	Finished	Dissolved	Drinking Water	531.2 LL	13395
810-14575-1 MSD	Finished	Dissolved	Drinking Water	531.2 LL	13395

LCMS

Analysis Batch: 12724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	331.0	
MBL 810-12724/12	Method Blank	Total/NA	Drinking Water	331.0	
LCS 810-12724/14	Lab Control Sample	Total/NA	Drinking Water	331.0	
LLCS 810-12724/13	Lab Control Sample	Total/NA	Drinking Water	331.0	

Analysis Batch: 12841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	L520	
MB 810-12841/10	Method Blank	Total/NA	Drinking Water	L520	
810-14575-1 MS	Finished	Total/NA	Drinking Water	L520	
810-14575-1 MSD	Finished	Total/NA	Drinking Water	L520	

Analysis Batch: 13068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	L231	
MB 810-13068/9	Method Blank	Total/NA	Drinking Water	L231	

Prep Batch: 13091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	L402 Prep	
MBL 810-13091/1-A	Method Blank	Total/NA	Drinking Water	L402 Prep	
LLCS 810-13091/2-A	Lab Control Sample	Total/NA	Drinking Water	L402 Prep	

Analysis Batch: 13122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	L306	
MB 810-13122/10	Method Blank	Total/NA	Drinking Water	L306	
810-14575-1 MS	Finished	Total/NA	Drinking Water	L306	
810-14575-1 MSD	Finished	Total/NA	Drinking Water	L306	

QC Association Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

LCMS

Analysis Batch: 13136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	L402	13091
MBL 810-13091/1-A	Method Blank	Total/NA	Drinking Water	L402	13091
LLCS 810-13091/2-A	Lab Control Sample	Total/NA	Drinking Water	L402	13091

Metals

Analysis Batch: 12959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-14575-1	Finished	Total/NA	Drinking Water	200.8	
MB 810-12959/13	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-12959/16	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-12959/12	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-12959/14	Lab Control Sample	Total/NA	Drinking Water	200.8	

Lab Chronicle

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Client Sample ID: Finished

Date Collected: 02/10/22 10:01
Date Received: 02/11/22 10:15

Lab Sample ID: 810-14575-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	13258	02/19/22 15:36	CM	EA SB
Total/NA	Analysis	524.3		1	12825	02/14/22 20:07	DC	EA SB
Total/NA	Prep	522			13289	02/21/22 08:20	MP	EA SB
Total/NA	Analysis	522		1	13334	02/21/22 22:05	TD	EA SB
Total/NA	Prep	525.2			13012	02/16/22 09:18	HS	EA SB
Total/NA	Analysis	525.2 Ext		1	13245	02/19/22 17:37	JW	EA SB
Total/NA	Prep	515.3			13087	02/17/22 06:52	AM	EA SB
Total/NA	Cleanup	Aliquot			13119	02/17/22 11:33	AM	EA SB
Total/NA	Analysis	515.3		1	13246	02/19/22 00:13	TL	EA SB
Total/NA	Prep	556			13102	02/17/22 09:27	HS	EA SB
Total/NA	Analysis	556		1	13152	02/18/22 07:08	JV	EA SB
Total/NA	Analysis	218.6		1	12788	02/11/22 18:50	JL	EA SB
Dissolved	Filtration	Filtration			13395	02/22/22 10:31	MP	EA SB
Dissolved	Analysis	531.2 LL		1	13509	02/24/22 15:39	TL	EA SB
Total/NA	Prep	549.2			12920	02/15/22 08:19	AM	EA SB
Total/NA	Analysis	549.2		1	13109	02/17/22 13:39	DL	EA SB
Total/NA	Analysis	331.0		1	12724	02/12/22 02:16	JW	EA SB
Total/NA	Analysis	L231		1	13068	02/18/22 15:11	JW	EA SB
Total/NA	Analysis	L306		1	13122	02/17/22 23:08	CM	EA SB
Total/NA	Prep	L402 Prep			13091	02/17/22 07:50	MP	EA SB
Total/NA	Analysis	L402		1	13136	02/19/22 03:09	CM	EA SB
Total/NA	Analysis	L520		1	12841	02/14/22 15:15	JW	EA SB
Total/NA	Analysis	200.8		1	12959	02/15/22 12:58	NB	EA SB

Laboratory References:

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100
EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777
EEAM = Eurofins Eaton Analytical, Monrovia, 750 Royal Oaks Drive, Monrovia, CA 91016, TEL (626)386-1127

Accreditation/Certification Summary

Client: Charleston Water System
Job ID: 810-14575-1
Project/Site: Charleston Water System

Laboratory: Eurofins Eaton South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	95005001	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
200.8		Drinking Water	Boron
200.8		Drinking Water	Cobalt
200.8		Drinking Water	Lithium
200.8		Drinking Water	Molybdenum
200.8		Drinking Water	Strontium
200.8		Drinking Water	Thorium
200.8		Drinking Water	Tin
200.8		Drinking Water	Titanium
200.8		Drinking Water	Vanadium
218.6		Drinking Water	Chromium, hexavalent
331.0		Drinking Water	Perchlorate
515.3	515.3	Drinking Water	2,4,5-T
515.3	515.3	Drinking Water	2,4-DB
515.3	515.3	Drinking Water	3,5-Dichlorobenzoic acid
515.3	515.3	Drinking Water	Acifluorfen
515.3	515.3	Drinking Water	Bentazon
515.3	515.3	Drinking Water	Chloramben
515.3	515.3	Drinking Water	DCPA (acid degradates)
515.3	515.3	Drinking Water	Dichlorprop
515.3	515.3	Drinking Water	Triclopyr
522	522	Drinking Water	1,4-Dioxane
524.2		Drinking Water	1,1,1,2-Tetrachloroethane
524.2		Drinking Water	1,1,2,2-Tetrachloroethane
524.2		Drinking Water	1,1,2-Trichloro-1,2,2-trifluoroethane
524.2		Drinking Water	1,1-Dichloroacetone
524.2		Drinking Water	1,1-Dichloroethane
524.2		Drinking Water	1,1-Dichloropropene
524.2		Drinking Water	1,2,3-Trichlorobenzene
524.2		Drinking Water	1,2,3-Trichloropropane
524.2		Drinking Water	1,2,3-Trimethylbenzene
524.2		Drinking Water	1,2,4-Trimethylbenzene
524.2		Drinking Water	1,2-Dibromo-3-Chloropropane
524.2		Drinking Water	1,2-Dibromoethane (EDB)
524.2		Drinking Water	1,3,5-Trimethylbenzene
524.2		Drinking Water	1,3-Dichlorobenzene
524.2		Drinking Water	1,3-Dichloropropane
524.2		Drinking Water	1-Chlorobutane
524.2		Drinking Water	2,2-Dichloropropane
524.2		Drinking Water	2-Butanone (MEK)
524.2		Drinking Water	2-Chlorotoluene
524.2		Drinking Water	2-Hexanone
524.2		Drinking Water	2-Nitropropane
524.2		Drinking Water	4-Chlorotoluene
524.2		Drinking Water	4-Isopropyltoluene
524.2		Drinking Water	4-Methyl-2-pentanone (MIBK)

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
524.2		Drinking Water	Acrylonitrile
524.2		Drinking Water	Allyl chloride
524.2		Drinking Water	Bromobenzene
524.2		Drinking Water	Bromochloromethane
524.2		Drinking Water	Bromomethane
524.2		Drinking Water	Carbon disulfide
524.2		Drinking Water	Chloroacetonitrile
524.2		Drinking Water	Chloroethane
524.2		Drinking Water	Chloromethane
524.2		Drinking Water	cis-1,3-Dichloropropylene
524.2		Drinking Water	Dibromomethane
524.2		Drinking Water	Dichlorodifluoromethane
524.2		Drinking Water	Ethyl ether
524.2		Drinking Water	Ethyl methacrylate
524.2		Drinking Water	Hexachlorobutadiene
524.2		Drinking Water	Hexachloroethane
524.2		Drinking Water	Isopropylbenzene
524.2		Drinking Water	Methacrylonitrile
524.2		Drinking Water	Methyl acrylate
524.2		Drinking Water	Methyl iodide
524.2		Drinking Water	Methyl methacrylate
524.2		Drinking Water	Methyl-tert-butyl Ether (MTBE)
524.2		Drinking Water	m-Xylene & p-Xylene
524.2		Drinking Water	Naphthalene
524.2		Drinking Water	n-Butylbenzene
524.2		Drinking Water	Nitrobenzene
524.2		Drinking Water	N-Propylbenzene
524.2		Drinking Water	o-Xylene
524.2		Drinking Water	Pentachloroethane
524.2		Drinking Water	Propionitrile
524.2		Drinking Water	sec-Butylbenzene
524.2		Drinking Water	tert-Butylbenzene
524.2		Drinking Water	Tetrahydrofuran
524.2		Drinking Water	trans-1,3-Dichloropropylene
524.2		Drinking Water	trans-1,4-Dichloro-2-butylene
524.2		Drinking Water	Trichlorofluoromethane
525.2 Ext	525.2	Drinking Water	1,2,4,5-Tetrachlorobenzene
525.2 Ext	525.2	Drinking Water	1-Methylnaphthalene
525.2 Ext	525.2	Drinking Water	2,2',3,3',4,4',6-Heptachlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,2',3,3',4,5',6,6'-Octachlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,2',3',4,6-Pentachlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,2',4,4',5,6'-Hexachlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,2',4,4'-Tetrachlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,3-Dichlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,4,5-Trichlorobiphenyl
525.2 Ext	525.2	Drinking Water	2,4-Dinitrotoluene
525.2 Ext	525.2	Drinking Water	2,6-Dinitrotoluene

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2 Ext	525.2	Drinking Water	2-Chlorobiphenyl
525.2 Ext	525.2	Drinking Water	2-Methylnaphthalene
525.2 Ext	525.2	Drinking Water	4,4'-DDD
525.2 Ext	525.2	Drinking Water	4,4'-DDE
525.2 Ext	525.2	Drinking Water	4,4'-DDT
525.2 Ext	525.2	Drinking Water	Acenaphthene
525.2 Ext	525.2	Drinking Water	Acenaphthylene
525.2 Ext	525.2	Drinking Water	Acetochlor
525.2 Ext	525.2	Drinking Water	Alachlor
525.2 Ext	525.2	Drinking Water	Aldrin
525.2 Ext	525.2	Drinking Water	alpha-BHC
525.2 Ext	525.2	Drinking Water	alpha-Chlordane
525.2 Ext	525.2	Drinking Water	Ametryn
525.2 Ext	525.2	Drinking Water	Anilazine
525.2 Ext	525.2	Drinking Water	Anthracene
525.2 Ext	525.2	Drinking Water	Aspon
525.2 Ext	525.2	Drinking Water	Atraton
525.2 Ext	525.2	Drinking Water	Atrazine
525.2 Ext	525.2	Drinking Water	Azinphos-ethyl
525.2 Ext	525.2	Drinking Water	Azinphos-methyl
525.2 Ext	525.2	Drinking Water	Bendiocarb
525.2 Ext	525.2	Drinking Water	Benfluralin
525.2 Ext	525.2	Drinking Water	Benzo[a]anthracene
525.2 Ext	525.2	Drinking Water	Benzo[a]pyrene
525.2 Ext	525.2	Drinking Water	Benzo[b]fluoranthene
525.2 Ext	525.2	Drinking Water	Benzo[g,h,i]perylene
525.2 Ext	525.2	Drinking Water	Benzo[k]fluoranthene
525.2 Ext	525.2	Drinking Water	beta-BHC
525.2 Ext	525.2	Drinking Water	Bolstar
525.2 Ext	525.2	Drinking Water	Bromacil
525.2 Ext	525.2	Drinking Water	Butachlor
525.2 Ext	525.2	Drinking Water	Butylate
525.2 Ext	525.2	Drinking Water	Butylbenzylphthalate
525.2 Ext	525.2	Drinking Water	Carbophenthion
525.2 Ext	525.2	Drinking Water	Carboxin
525.2 Ext	525.2	Drinking Water	Chlorfenvinphos
525.2 Ext	525.2	Drinking Water	Chlorobenzilate
525.2 Ext	525.2	Drinking Water	Chloroneb
525.2 Ext	525.2	Drinking Water	Chloropropylate
525.2 Ext	525.2	Drinking Water	Chlorothalonil
525.2 Ext	525.2	Drinking Water	Chlorpropham
525.2 Ext	525.2	Drinking Water	Chlorpyrifos
525.2 Ext	525.2	Drinking Water	Chlorpyrifos-methyl
525.2 Ext	525.2	Drinking Water	Chrysene
525.2 Ext	525.2	Drinking Water	cis-Nonachlor
525.2 Ext	525.2	Drinking Water	cis-Permethrin
525.2 Ext	525.2	Drinking Water	Clomazone

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2 Ext	525.2	Drinking Water	Coumaphos
525.2 Ext	525.2	Drinking Water	Crotoxyphos(Ciodin)
525.2 Ext	525.2	Drinking Water	Cyanazine
525.2 Ext	525.2	Drinking Water	Cycloate
525.2 Ext	525.2	Drinking Water	DCPA
525.2 Ext	525.2	Drinking Water	Deisopropylatrazine
525.2 Ext	525.2	Drinking Water	delta-BHC
525.2 Ext	525.2	Drinking Water	Demeton-O
525.2 Ext	525.2	Drinking Water	Demeton-S
525.2 Ext	525.2	Drinking Water	Desethylatrazine
525.2 Ext	525.2	Drinking Water	Di (2-ethylhexyl)phthalate
525.2 Ext	525.2	Drinking Water	Di(2-ethylhexyl)adipate
525.2 Ext	525.2	Drinking Water	Diazinon
525.2 Ext	525.2	Drinking Water	Dibenz(a,h)anthracene
525.2 Ext	525.2	Drinking Water	Dichlobenil
525.2 Ext	525.2	Drinking Water	Dichlofenthion
525.2 Ext	525.2	Drinking Water	Dichloran
525.2 Ext	525.2	Drinking Water	Dichlorvos
525.2 Ext	525.2	Drinking Water	Dicrotophos
525.2 Ext	525.2	Drinking Water	Dieldrin
525.2 Ext	525.2	Drinking Water	Diethylphthalate
525.2 Ext	525.2	Drinking Water	Dimethoate
525.2 Ext	525.2	Drinking Water	Dimethyl phthalate
525.2 Ext	525.2	Drinking Water	Di-n-butyl phthalate
525.2 Ext	525.2	Drinking Water	Di-n-octyl phthalate
525.2 Ext	525.2	Drinking Water	Dioxathion A
525.2 Ext	525.2	Drinking Water	Dioxathion B
525.2 Ext	525.2	Drinking Water	Diphenamid
525.2 Ext	525.2	Drinking Water	Disulfoton
525.2 Ext	525.2	Drinking Water	Disulfoton sulfone
525.2 Ext	525.2	Drinking Water	Disulfoton sulfoxide
525.2 Ext	525.2	Drinking Water	Dyfonate(Fonofos)
525.2 Ext	525.2	Drinking Water	Endosulfan I
525.2 Ext	525.2	Drinking Water	Endosulfan II
525.2 Ext	525.2	Drinking Water	Endosulfan sulfate
525.2 Ext	525.2	Drinking Water	Endrin
525.2 Ext	525.2	Drinking Water	Endrin aldehyde
525.2 Ext	525.2	Drinking Water	E-Phosphamidon
525.2 Ext	525.2	Drinking Water	EPN
525.2 Ext	525.2	Drinking Water	EPTC
525.2 Ext	525.2	Drinking Water	Erucylamide
525.2 Ext	525.2	Drinking Water	Esfenvalerate
525.2 Ext	525.2	Drinking Water	Ethalfluralin
525.2 Ext	525.2	Drinking Water	Ethion
525.2 Ext	525.2	Drinking Water	Ethofumesate
525.2 Ext	525.2	Drinking Water	Ethoprop
525.2 Ext	525.2	Drinking Water	Etridiazole

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2 Ext	525.2	Drinking Water	Famphur
525.2 Ext	525.2	Drinking Water	Fenamiphos
525.2 Ext	525.2	Drinking Water	Fenarimol
525.2 Ext	525.2	Drinking Water	Fenitrothion
525.2 Ext	525.2	Drinking Water	Fenoxaprop-ethyl
525.2 Ext	525.2	Drinking Water	Fensulfothion(Dasanit)
525.2 Ext	525.2	Drinking Water	Fenthion
525.2 Ext	525.2	Drinking Water	Fluazifop-butyl
525.2 Ext	525.2	Drinking Water	Fluchloralin
525.2 Ext	525.2	Drinking Water	Fluometuron
525.2 Ext	525.2	Drinking Water	Fluoranthene
525.2 Ext	525.2	Drinking Water	Fluorene
525.2 Ext	525.2	Drinking Water	Fluridone
525.2 Ext	525.2	Drinking Water	gamma-BHC (Lindane)
525.2 Ext	525.2	Drinking Water	gamma-Chlordane
525.2 Ext	525.2	Drinking Water	Heptachlor
525.2 Ext	525.2	Drinking Water	Heptachlor epoxide
525.2 Ext	525.2	Drinking Water	Hexachlorobenzene
525.2 Ext	525.2	Drinking Water	Hexachlorocyclopentadiene
525.2 Ext	525.2	Drinking Water	Hexazinone
525.2 Ext	525.2	Drinking Water	Indeno[1,2,3-cd]pyrene
525.2 Ext	525.2	Drinking Water	Iprodione
525.2 Ext	525.2	Drinking Water	Isophenphos
525.2 Ext	525.2	Drinking Water	Isophorone
525.2 Ext	525.2	Drinking Water	Leptophos
525.2 Ext	525.2	Drinking Water	Malathion
525.2 Ext	525.2	Drinking Water	Metalaxyl
525.2 Ext	525.2	Drinking Water	Methoxychlor
525.2 Ext	525.2	Drinking Water	Methyl paraoxon
525.2 Ext	525.2	Drinking Water	Methyl parathion
525.2 Ext	525.2	Drinking Water	Metolachlor
525.2 Ext	525.2	Drinking Water	Metribuzin
525.2 Ext	525.2	Drinking Water	Metsulfuron-methyl
525.2 Ext	525.2	Drinking Water	Mevinphos
525.2 Ext	525.2	Drinking Water	MGK 264 - isomer a
525.2 Ext	525.2	Drinking Water	MGK 264 - isomer b
525.2 Ext	525.2	Drinking Water	MGK 326
525.2 Ext	525.2	Drinking Water	Mirex
525.2 Ext	525.2	Drinking Water	Molinate
525.2 Ext	525.2	Drinking Water	Monochrotophos
525.2 Ext	525.2	Drinking Water	Naled
525.2 Ext	525.2	Drinking Water	Naphthalene
525.2 Ext	525.2	Drinking Water	Napropamide
525.2 Ext	525.2	Drinking Water	Norflurazon
525.2 Ext	525.2	Drinking Water	Oryzalin
525.2 Ext	525.2	Drinking Water	Oxadiazon
525.2 Ext	525.2	Drinking Water	Oxychlordane

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2 Ext	525.2	Drinking Water	Oxyfluorfen
525.2 Ext	525.2	Drinking Water	Parathion
525.2 Ext	525.2	Drinking Water	Pebulate
525.2 Ext	525.2	Drinking Water	Pendimethalin
525.2 Ext	525.2	Drinking Water	Pentachlorobenzene
525.2 Ext	525.2	Drinking Water	Pentachloronitrobenzene
525.2 Ext	525.2	Drinking Water	Pentachlorophenol
525.2 Ext	525.2	Drinking Water	Phenanthrene
525.2 Ext	525.2	Drinking Water	Phorate
525.2 Ext	525.2	Drinking Water	Phosmet
525.2 Ext	525.2	Drinking Water	Profluoralin
525.2 Ext	525.2	Drinking Water	Prometon
525.2 Ext	525.2	Drinking Water	Prometryn
525.2 Ext	525.2	Drinking Water	Pronamide
525.2 Ext	525.2	Drinking Water	Propachlor
525.2 Ext	525.2	Drinking Water	Propanil
525.2 Ext	525.2	Drinking Water	Propazine
525.2 Ext	525.2	Drinking Water	Propiconazole A
525.2 Ext	525.2	Drinking Water	Propiconazole B
525.2 Ext	525.2	Drinking Water	Pyrene
525.2 Ext	525.2	Drinking Water	Simazine
525.2 Ext	525.2	Drinking Water	Simetryn
525.2 Ext	525.2	Drinking Water	Stirophos
525.2 Ext	525.2	Drinking Water	Sulfotepp
525.2 Ext	525.2	Drinking Water	Tebuthiuron
525.2 Ext	525.2	Drinking Water	TEPP
525.2 Ext	525.2	Drinking Water	Terbacil
525.2 Ext	525.2	Drinking Water	Terbufos
525.2 Ext	525.2	Drinking Water	Terbutryn
525.2 Ext	525.2	Drinking Water	Thiabendazole
525.2 Ext	525.2	Drinking Water	Thiobencarb
525.2 Ext	525.2	Drinking Water	Thionazin
525.2 Ext	525.2	Drinking Water	Tokuthion (Prothiofos)
525.2 Ext	525.2	Drinking Water	trans-Nonachlor
525.2 Ext	525.2	Drinking Water	trans-Permethrin
525.2 Ext	525.2	Drinking Water	Triadimefon
525.2 Ext	525.2	Drinking Water	Trichloronate
525.2 Ext	525.2	Drinking Water	Tricyclazole
525.2 Ext	525.2	Drinking Water	Trifluralin
525.2 Ext	525.2	Drinking Water	Vernolate
525.2 Ext	525.2	Drinking Water	Vinclozolin
525.2 Ext	525.2	Drinking Water	Z-Phosphamidon
531.2 LL		Drinking Water	1-Naphthol
556	556	Drinking Water	Acetaldehyde
556	556	Drinking Water	Benzaldehyde
556	556	Drinking Water	Butanal
556	556	Drinking Water	Crotonaldehyde

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
556	556	Drinking Water	Cyclohexanone
556	556	Drinking Water	Decanal
556	556	Drinking Water	Formaldehyde
556	556	Drinking Water	Glyoxal (ethanedial)
556	556	Drinking Water	Heptanal
556	556	Drinking Water	Hexanal
556	556	Drinking Water	Methyl glyoxal (2-oxopropanal or pyruvic aldehyde)
556	556	Drinking Water	Nonanal
556	556	Drinking Water	Octanal
556	556	Drinking Water	Pentanal
556	556	Drinking Water	Propanal
L231		Drinking Water	Anatoxin-a
L231		Drinking Water	Cylindrospermopsin
L231		Drinking Water	Microcystin- LR
L231		Drinking Water	Microcystin-LA
L231		Drinking Water	Microcystin-LF
L231		Drinking Water	Microcystin-LY
L231		Drinking Water	Microcystin-RR
L231		Drinking Water	Microcystin-YR
L231		Drinking Water	Nodularin
L306		Drinking Water	3-Hydroxycarbofuran
L306		Drinking Water	Aldicarb sulfone
L306		Drinking Water	Aldicarb sulfoxide
L306		Drinking Water	Azoxystrobin
L306		Drinking Water	Baygon
L306		Drinking Water	Bendiocarb
L306		Drinking Water	Bensulide
L306		Drinking Water	Bentazon
L306		Drinking Water	Bispyribac sodium
L306		Drinking Water	Boscalid
L306		Drinking Water	Carbaryl
L306		Drinking Water	Carbofuran
L306		Drinking Water	Carfentrazone-ethyl
L306		Drinking Water	Chlorotoluron
L306		Drinking Water	Clomazone
L306		Drinking Water	Clopyralid
L306		Drinking Water	Clothianidin
L306		Drinking Water	Cyazofamid
L306		Drinking Water	Dichlorvos
L306		Drinking Water	Diflubenzuron
L306		Drinking Water	Diuron
L306		Drinking Water	Fenamiphos Sulfone
L306		Drinking Water	Fenamiphos Sulfoxide
L306		Drinking Water	Fenuron
L306		Drinking Water	Fludioxonil
L306		Drinking Water	Fluometuron

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
L306		Drinking Water	Fluoxastrobin
L306		Drinking Water	Halofenozide
L306		Drinking Water	Halosulfuron-methyl
L306		Drinking Water	Imazapic
L306		Drinking Water	Imidacloprid
L306		Drinking Water	Indaziflam
L306		Drinking Water	Isoproturon
L306		Drinking Water	Linuron
L306		Drinking Water	Metalaxyl, total
L306		Drinking Water	Methiocarb
L306		Drinking Water	Methomyl
L306		Drinking Water	Methoxyfenozide
L306		Drinking Water	Monothiuram
L306		Drinking Water	Monuron
L306		Drinking Water	Neburon
L306		Drinking Water	Oryzalin
L306		Drinking Water	Oxadiazon
L306		Drinking Water	Oxamyl
L306		Drinking Water	Paclobutrazol
L306		Drinking Water	Prodiamine
L306		Drinking Water	Propamocarb
L306		Drinking Water	Propanil
L306		Drinking Water	Propargite
L306		Drinking Water	Pyraclostrobin
L306		Drinking Water	Quinclorac
L306		Drinking Water	Siduron, total
L306		Drinking Water	Tebuthiuron
L306		Drinking Water	Thidiazuron
L306		Drinking Water	Thiencarbazone-methyl
L306		Drinking Water	Thiophanate-Methyl
L306		Drinking Water	Triadimefon
L306		Drinking Water	Triadimenol, total
L306		Drinking Water	Trichlorfon
L306		Drinking Water	Trifloxystrobin
L402	L402 Prep	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF
L402	L402 Prep	Drinking Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
L402	L402 Prep	Drinking Water	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)
L402	L402 Prep	Drinking Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
L402	L402 Prep	Drinking Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
L402	L402 Prep	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
L402	L402 Prep	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O

Client: Charleston Water System
Job ID: 810-14575-1
Project/Site: Charleston Water System

Laboratory: Eurofins Eaton South Bend (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
L402	L402 Prep	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
L402	L402 Prep	Drinking Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
L402	L402 Prep	Drinking Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
L402	L402 Prep	Drinking Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
L402	L402 Prep	Drinking Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
L402	L402 Prep	Drinking Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
L402	L402 Prep	Drinking Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
L402	L402 Prep	Drinking Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
L402	L402 Prep	Drinking Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
L402	L402 Prep	Drinking Water	Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)
L402	L402 Prep	Drinking Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
L402	L402 Prep	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
L402	L402 Prep	Drinking Water	Perfluorobutanoic acid (PFBA)
L402	L402 Prep	Drinking Water	Perfluorodecanesulfonic acid (PFDS)
L402	L402 Prep	Drinking Water	Perfluorodecanoic acid (PFDA)
L402	L402 Prep	Drinking Water	Perfluorododecanesulfonic acid (PFDoS)
L402	L402 Prep	Drinking Water	Perfluorododecanoic acid (PFDoA)
L402	L402 Prep	Drinking Water	Perfluoroheptanesulfonic Acid (PFHpS)
L402	L402 Prep	Drinking Water	Perfluoroheptanoic acid (PFHpA)
L402	L402 Prep	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
L402	L402 Prep	Drinking Water	Perfluorohexanoic acid (PFHxA)
L402	L402 Prep	Drinking Water	Perfluoro-n-hexadecanoic acid (PFHxDA)
L402	L402 Prep	Drinking Water	Perfluorononanesulfonic acid (PFNS)
L402	L402 Prep	Drinking Water	Perfluorononanoic acid (PFNA)
L402	L402 Prep	Drinking Water	Perfluorooctanesulfonamide (PFOSA)
L402	L402 Prep	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
L402	L402 Prep	Drinking Water	Perfluorooctanoic acid (PFOA)
L402	L402 Prep	Drinking Water	Perfluoropentanesulfonic acid (PFPeS)
L402	L402 Prep	Drinking Water	Perfluoropentanoic acid (PFPeA)
L402	L402 Prep	Drinking Water	Perfluorotetradecanoic acid (PFTeDA)
L402	L402 Prep	Drinking Water	Perfluorotridecanoic acid (PFTrDA)
L402	L402 Prep	Drinking Water	Perfluoroundecanoic acid (PFUnA)
L520		Drinking Water	Acrylamide
L520		Drinking Water	Aniline
L520		Drinking Water	Urethane

Laboratory: Eurofins Eaton Monrovia

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Accreditation/Certification Summary

Client: Charleston Water System
Job ID: 810-14575-1
Project/Site: Charleston Water System

Laboratory: Eurofins Eaton Monrovia (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5890.01	06-30-23
Arizona	State	AZ0778	12-15-22
California	State	2813	02-01-23
Colorado	State	CA00006	01-31-23
Connecticut	State	PH-0107	03-31-22
Delaware (DW)	State	CA00006	02-01-23
Florida	NELAP	E871024	06-30-22
Guam	State	21-008R	04-21-22
Hawaii	State	<cert No.>	01-31-23
Hawaii (Micro)	State	<cert No.>	02-01-23
Idaho (DW)	State	CA00006	01-31-23
Idaho (Micro)	State	CA00006	03-31-22
Illinois	NELAP	200033	03-17-22
Iowa	State	413	07-01-23
Kansas	NELAP	E-10268	04-30-22
Kentucky (DW)	State	KY90107	12-31-22
Louisiana (DW)	State	LA008	12-31-22
Maine	State	CA00006	03-08-22
Maryland	State	224	12-31-22
Massachusetts	State	M-CA006	12-15-22
MI - RadChem Recognition	State	9906	02-01-23
Michigan	State	9906	02-01-23
Mississippi	State	CA2813	02-01-23
Montana (DW)	State	CERT0035	01-01-23
Nevada	State	CA00006	07-31-22
New Hampshire	NELAP	2959	03-29-22
New Jersey	NELAP	CA008	06-30-22
New Mexico	State	CA00006	01-31-23
New York	NELAP	11320	04-01-22
North Carolina (DW)	State	NC06701	07-31-22
Northern Mariana Islands (DW)	State	CA00006	01-31-23
Ohio	State	87786	01-31-23
Oregon	NELAP	4034	01-29-23
Pennsylvania	NELAP	68-00565	11-30-22
Puerto Rico	State	CA00006	11-10-22
Rhode Island	State	LAO00326	12-30-22
South Carolina	State	87016001	02-01-23
South Dakota (DW)	State	CA11320	02-01-23
Texas	NELAP	T104704230-21-19	09-30-22
USEPA UCMR 3	US Federal Programs	CA0006	12-31-22
USEPA UCMR 4	US Federal Programs	CA0006	12-31-22
Utah	NELAP	CA00006	01-31-23
Vermont	State	VT-0114	12-28-22
Virginia	NELAP	460260	06-14-22
Washington	State	C838	03-13-22
Wyoming	State	8-TMS-L	11-30-22

Method Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA SB
524.3	Volatile Organic Compounds (GC/MS SIM)	EPA-DW	EA SB
522	1,4 Dioxane (GC/MS SIM)	EPA	EA SB
525.2 Ext	Semivolatile Organic Compounds (GC/MS)	EPA	EA SB
515.3	Herbicides (GC)	EPA	EA SB
556	Carbonyl Compounds (GC)	EPA	EA SB
218.6	Chromium, Hexavalent (Ion Chromatography)	EPA	EA SB
531.2 LL	Carbamate Pesticides (HPLC)	EPA	EA SB
549.2	Diquat and Paraquat (HPLC)	EPA	EA SB
331.0	Perchlorate (LC/MS/MS)	EPA	EA SB
L231	Algal Toxins (LC/ESI/MS/MS)	Lab SOP	EA SB
L306	Selected Turfgrass Pesticides (LC/MS/MS)	Lab SOP	EA SB
L402	Poly and Per-Fluorinated Chemicals in Water by LC/MS/MS	Lab SOP	EA SB
L520	Acrylamide, Aniline, and Urethane (LC/ESI/MS/MS)	Lab SOP	EA SB
200.8	Metals (ICP/MS)	EPA	EA SB
Subcontract	Nitrosamines 9	None	EA MON
Subcontract	Dioxin	None	EEAM
Subcontract	EDC/PPCP/Hormone	None	EEAM
515.3	Extraction of Chlorinated Acids	EPA-DW	EA SB
522	Solid-Phase Extraction (SPE)	EPA	EA SB
525.2	Extraction of Semivolatile Compounds	EPA	EA SB
549.2	Extraction of Diquat and Paraquat	EPA	EA SB
556	Derivatization	EPA	EA SB
Aliquot	Preparation, Extract aliquot	None	EA SB
Filtration	Sample Filtration	None	EA SB
L402 Prep	Solid-Phase Extraction (SPE)	Lab SOP	EA SB

Protocol References:

EPA = US Environmental Protection Agency
EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
Lab SOP = Laboratory Standard Operating Procedure
None = None

Laboratory References:

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100
EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777
EEAM = Eurofins Eaton Analytical, Monrovia, 750 Royal Oaks Drive, Monrovia, CA 91016, TEL (626)386-1127

Sample Summary

Client: Charleston Water System
Project/Site: Charleston Water System

Job ID: 810-14575-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-14575-1	Finished	Drinking Water	02/10/22 10:01	02/11/22 10:15

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

A2LA ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

Eurofins Eaton Analytical
110 South Hill Street
South Bend, IN 46617-2702
Attention: Karen Fullmer
Fax: 574-233-8207

Date of Issue
03/04/2022
Rachelle Arada
EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 987476
Project: SUBCONTRACT
Group: PPCP

L6NW: Rachelle Arada

Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

https://www.eurofinsus.com/Eaton

Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalert	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x	
Acrylamide	+LCMS 2440)	x	
Algal Toxins/Microcystin	+ LCMS 3570	x	
Alkalinity	SM 2320B	x	x
Ammonia	EPA 350.1, SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		x
Bromate	+LCMS- 2447	x	
Carbonate as CO3	SM 2330 B	x	x
Carbonyls	EPA 556	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	x	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	x	x
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+LCMS-3618	x	
Gross Alpha and Gross Beta	EPA 900.0	x	x

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+LCMS-2443	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	+ (GCMS 2412) by EPA 524.2 modified	x	

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+) In-House Method

eurofins | Eaton Analytical

Acknowledgement of Samples Received

Addr: **Eurofins Eaton Analytical**
110 South Hill Street
South Bend, IN 46617-2702

Attn: Karen Fullmer
Phone: 800-332-4345

Client ID: EEA-SOUTHBEND
Folder #: 987476
Project: SUBCONTRACT
Sample Group: PPCP

Project Manager: Rachelle Arada
Phone: 626-386-1106
PO #: 810-14575-1

The following samples were received from you on **February 15, 2022** at **1519**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
202202150531	Finished (810-14575-1)	02/10/2022 1001
	Variable ID: 810-14575-1	
	@DX_ABI_NEG @DX_ABI_POS @2378-TCDD_Dioxin	

Test Description

@DX_ABI_NEG -- Endocrine Disruptors Negative Mode - SPE

@DX_ABI_POS -- Endocrine Disruptors Positive Mode - SPE

@2378-TCDD_Dioxin -- 2,3,7,8-TCDD_Dioxin

South Bend, IN
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing America

957476

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mattheis, Joe	Carrier Tracking No(s):	COC No: 810-1969.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: joe.mattheis@eurofinset.com	State of Origin: South Carolina	Page: Page 1 of 1
Company: Eurofins Eaton Analytical		Accreditations Required (See note): State - South Carolina		Job #: 810-14575-1
Address: 750 Royal Oaks Drive, ,	Due Date Requested: 2/25/2022			
City: Monrovia	TAT Requested (days):			
State, Zip: CA, 91016				
Phone: 626-386-1127(Tel)	PO #:			
Email:	WO #:			
Project Name: Charleston Water System	Project #: 81001293			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin)/ Dioxin	SUB (EDC/PPCP/Hormone)/ EDC/PPCP/Hormone	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Finished (810-14575-1)	2/10/22	10:01 Eastern		Drinking Wate			X	X	2	Dioxin - done in Monrovia, EDC/PPCP/Hormone - done in Monrovia

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2-14-22 1600	EEA		2-15-22 1519	ECO
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

MET-1613B Turbidity Screening Bench Worksheet

Instrument ID: CE

Method: EPA 180.1 screening for 1613

Calibration Date: 11-05-21

QCS Standard 1 NTU Lot#: A0105

QCS Standard 10 NTU Lot#: A1082

Seq #	Sample #	Results (NTU)	Client Contact Required? Y/N
1	LMB	0.204	
2	QCS (1 NTU)	1.06	
3	810-14575-AF-1	0.329	N
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	LMB	0.215	
14	QCS (10 NTU)	9.58	
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25	LMB		
26	QCS (1 NTU)		

Analyst: [signature]

Date: 02-14-22

4

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 4S7476

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 401 (Observation= 2.1 °C) (Corr.Factor -0.2 °C) (Final = 1.9 °C)

TYPE OF ICE: Real X Synthetic ____ No Ice ____ CONDITION OF ICE: Frozen ____ Partially Frozen X Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / (FedEx) / UPS / DHL / Area Fast / Top Line / Other: ________

550054095741

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)
3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

4 **Dioxin (1613 or 2,3,7,8 TCDD):** must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) **pH Check.** Manufacturer: ________ Lot Number: ________ pH strip type: 0 - 14 or ________ Expiration Date ________ Results: ________

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: ________ Expiration Date: ________ Results ________

7) **VOA and Radon Headspace:** No Samples with Headspace: ☐ Samples with Headspace (see below): ☐

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): ________

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	[signature]	Chuck Brooks	Eurofins Eaton Analytical	2.15.22	1519
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

Page ___ of ___

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 987476
Project: SUBCONTRACT
Group: PPCP

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Flags Legend:

Q3 - Sample received with improper chemical preservation.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits

Report: 987476
Project: SUBCONTRACT
Group: PPCP

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Samples Received on:
02/15/2022 1519

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	202202150531	**Finished (810-14575-1)**				
02/28/2022 22:06	Acesulfame-K		45		ng/L	20
02/22/2022 04:27	Atrazine		12		ng/L	5.0
02/22/2022 04:27	Caffeine		16		ng/L	10
02/22/2022 04:27	DIA		5.2		ng/L	5.0
02/28/2022 22:06	Iohexol		45		ng/L	20
02/28/2022 22:06	Salicylic Acid		520		ng/L	200
02/22/2022 04:27	Simazine		15		ng/L	5.0
02/28/2022 22:06	Sucralose		1800		ng/L	100

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data

Report: 987476
Project: SUBCONTRACT
Group: PPCP

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Samples Received on:
02/15/2022 1519

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
Finished (810-14575-1) (202202150531)							**Sampled on 02/10/2022 1001**		
	Variable ID: 810-14575-1								
	EPA 1613B - 2,3,7,8-TCDD_Dioxin								
02/25/22	03/01/22 14:41	1389471	1389941	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5.00	1
02/25/22	03/01/22 14:41	1389471	1389941	(EPA 1613B)	C12-2,3,7,8-TCDD	61	%		1
	LC-MS-MS - Endocrine Disruptors Positive Mode - SPE								
	02/22/22 04:27		1388460	(LC-MS-MS)	1,7-Dimethylxanthine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Acetaminophen	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Albuterol	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Amoxicillin (semi-quantitative)	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Andorostenedione	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Atenolol	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Atrazine	12 (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Bezafibrate	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Bromacil	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Caffeine	16 (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Carbadox	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Carbamazepine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Carisoprodol	ND (Q3,R7)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Chloridazon	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Chlorotoluron	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Cimetidine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Cotinine	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	DACT (semi-quantitative)	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	DEA	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	DEET	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Dehydronifedipine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	DIA	5.2 (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Diazepam	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Dilantin	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Diltiazem	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Diuron	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Erythromycin (semi-quantitative)	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Flumeqine	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Fluoxetine	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Isoproturon	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Ketoprofen	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Ketorolac	ND (Q3)	ng/L	5.0	1

Rounding on totals after summation.
(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

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Laboratory Data

Report: 987476
Project: SUBCONTRACT
Group: PPCP

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Samples Received on:
02/15/2022 1519

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
	02/22/22 04:27		1388460	(LC-MS-MS)	Lidocaine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Lincomycin	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Linuron	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Lopressor	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Meclofenamic Acid	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Meprobamate	ND (Q3,R7)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Metazachlor	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Metformin	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Metolachlor	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Nifedipine	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Norethisterone	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	OUST (Sulfometuron,methyl)	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Oxolinic acid	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Pentoxifylline	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Phenazone	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Primidone	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Progesterone	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Propazine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Quinoline	ND (Q3)	ng/L	20	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Simazine	15 (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfachloropyridazine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfadiazine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfadimethoxine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfamerazine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfamethazine	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfamethizole	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfamethoxazole	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Sulfathiazole	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	TCEP	ND (Q3)	ng/L	10	1
	02/25/22 19:43		1389632	(LC-MS-MS)	TCPP	ND (Q3)	ng/L	200	1
	02/22/22 04:27		1388460	(LC-MS-MS)	TDCPP	ND (Q3)	ng/L	100	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Testosterone	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Theobromine	ND (Q3)	ng/L	50	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Theophylline (semi-quantitative)	ND (Q3)	ng/L	10	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Thiabendazole	ND (Q3)	ng/L	5.0	1
	02/22/22 04:27		1388460	(LC-MS-MS)	Trimethoprim	ND (Q3)	ng/L	5.0	1

LC-MS-MS - Endocrine Disruptors Negative Mode - SPE

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1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 987476
Project: SUBCONTRACT
Group: PPCP

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Samples Received on:
02/15/2022 1519

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
	02/23/22 19:53		1388907	(LC-MS-MS)	2,4-D	ND	ng/L	50	1
	02/23/22 19:53		1388907	(LC-MS-MS)	4-nonylphenol - semi quantitative	ND	ng/L	400	1
	02/23/22 19:53		1388907	(LC-MS-MS)	4-tert-Octylphenol	ND	ng/L	25	1
	02/28/22 22:06		1390093	(LC-MS-MS)	Acesulfame-K	45	ng/L	20	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Bendroflumethiazide	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	BPA	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Butalbital	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Butylparaben	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Chloramphenicol	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Clofibric Acid	ND	ng/L	5.0	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Diclofenac	ND	ng/L	5.0	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Estradiol	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Estriol	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Estrone	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Ethinyl Estradiol - 17 alpha	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Ethylparaben	ND	ng/L	20	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Gemfibrozil	ND	ng/L	5.0	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Ibuprofen	ND	ng/L	25	1
	02/28/22 22:06		1390093	(LC-MS-MS)	Iohexol	45	ng/L	20	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Iopromide	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Isobutylparaben	ND	ng/L	10	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Methylparaben	ND	ng/L	20	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Naproxen	ND	ng/L	20	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Propylparaben	ND	ng/L	5.0	1
	02/28/22 22:06		1390093	(LC-MS-MS)	Salicylic Acid	520	ng/L	200	1
	02/28/22 22:06		1390093	(LC-MS-MS)	Sucralose	1800	ng/L	100	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Triclocarban	ND	ng/L	50	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Triclosan	ND	ng/L	25	1
	02/23/22 19:53		1388907	(LC-MS-MS)	Warfarin	ND	ng/L	5.0	1

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Report: 987476
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Eurofins Eaton Analytical

Endocrine Disruptors Positive Mode - SPE
Analytical Batch: 1388460 **Analysis Date: 02/22/2022**
202202150531 Finished (810-14575-1) Analyzed by: TR7W

Endocrine Disruptors Negative Mode - SPE
Analytical Batch: 1388907 **Analysis Date: 02/23/2022**
202202150531 Finished (810-14575-1) Analyzed by: TPE8

Endocrine Disruptors Positive Mode - SPE
Analytical Batch: 1389632 **Analysis Date: 02/25/2022**
202202150531 Finished (810-14575-1) Analyzed by: TR7W

2,3,7,8-TCDD_Dioxin
Prep Batch: 1389471 **Analytical Batch: 1389941** **Analysis Date: 03/01/2022**
202202150531 Finished (810-14575-1) Analyzed by: X8AA

Endocrine Disruptors Negative Mode - SPE
Analytical Batch: 1390093 **Analysis Date: 02/28/2022**
202202150531 Finished (810-14575-1) Analyzed by: TPE8

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
Endocrine Disruptors Positive Mode - SPE by LC-MS-MS									
Analytical Batch: 1388460						**Analysis Date: 02/21/2022**			
LCS1	1,7-Dimethylxanthine		100	89.9	ng/L	90	(60-140)		
LCS2	1,7-Dimethylxanthine		100	83.8	ng/L	84	(60-140)	30	7.0
MBLK	1,7-Dimethylxanthine			<5	ng/L				
MRL_CHK	1,7-Dimethylxanthine		5	5.17	ng/L	103	(50-150)		
MS_202202150582	1,7-Dimethylxanthine	ND	100	85.4	ng/L	85	(60-140)		
MSD_202202150582	1,7-Dimethylxanthine	ND	100	86.5	ng/L	86	(60-140)	30	1.3
LCS1	Acetaminophen		100	81.3	ng/L	81	(60-140)		
LCS2	Acetaminophen		100	80.1	ng/L	80	(60-140)	30	1.5
MBLK	Acetaminophen			<10	ng/L				
MRL_CHK	Acetaminophen		5	3.58	ng/L	72	(50-150)		
MS_202202150582	Acetaminophen	ND	100	102	ng/L	102	(60-140)		
MSD_202202150582	Acetaminophen	ND	100	77.2	ng/L	77	(60-140)	30	28
LCS1	Albuterol		100	95.6	ng/L	96	(60-140)		
LCS2	Albuterol		100	96.4	ng/L	96	(60-140)	30	0.83
MBLK	Albuterol			<5	ng/L				
MRL_CHK	Albuterol		5	3.79	ng/L	76	(50-150)		
MS_202202150582	Albuterol	ND	100	102	ng/L	102	(60-140)		
MSD_202202150582	Albuterol	ND	100	93.8	ng/L	94	(60-140)	30	8.5
LCS1	Amoxicillin (semi-quantitative)		400	338	ng/L	85	(60-140)		
LCS2	Amoxicillin (semi-quantitative)		400	340	ng/L	85	(60-140)	30	0.88
MBLK	Amoxicillin (semi-quantitative)			<20	ng/L				
MRL_CHK	Amoxicillin (semi-quantitative)		20	19.8	ng/L	99	(50-150)		
MS_202202150582	Amoxicillin (semi-quantitative)	ND	400	375	ng/L	93	(60-140)		
MSD_202202150582	Amoxicillin (semi-quantitative)	ND	400	365	ng/L	91	(60-140)	30	2.6
LCS1	Andorostenedione		100	91.1	ng/L	91	(60-140)		
LCS2	Andorostenedione		100	90.4	ng/L	90	(60-140)	30	0.77
MBLK	Andorostenedione			<5	ng/L				
MRL_CHK	Andorostenedione		5	3.82	ng/L	76	(50-150)		
MS_202202150582	Andorostenedione	ND	100	106	ng/L	106	(60-140)		
MSD_202202150582	Andorostenedione	ND	100	92.6	ng/L	93	(60-140)	30	13
LCS1	Atenolol		100	92.0	ng/L	92	(60-140)		
LCS2	Atenolol		100	99.3	ng/L	99	(60-140)	30	7.6
MBLK	Atenolol			<5	ng/L				
MRL_CHK	Atenolol		5	3.86	ng/L	77	(50-150)		
MS_202202150582	Atenolol	ND	100	89.4	ng/L	89	(60-140)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202150582	Atenolol	ND	100	83.0	ng/L	83	(60-140)	30	7.4
LCS1	Atrazine		100	92.4	ng/L	92	(60-140)		
LCS2	Atrazine		100	98.7	ng/L	99	(60-140)	30	6.6
MBLK	Atrazine			<5	ng/L				
MRL_CHK	Atrazine		5	4.48	ng/L	90	(50-150)		
MS_202202150582	Atrazine	ND	100	102	ng/L	102	(60-140)		
MSD_202202150582	Atrazine	ND	100	86.0	ng/L	86	(60-140)	30	17
LCS1	Bezafibrate		100	103	ng/L	103	(60-140)		
LCS2	Bezafibrate		100	104	ng/L	104	(60-140)	30	0.97
MBLK	Bezafibrate			<5	ng/L				
MRL_CHK	Bezafibrate		5	4.91	ng/L	98	(50-150)		
MS_202202150582	Bezafibrate	ND	100	106	ng/L	106	(60-140)		
MSD_202202150582	Bezafibrate	ND	100	102	ng/L	102	(60-140)	30	3.6
LCS1	Bromacil		100	92.3	ng/L	92	(60-140)		
LCS2	Bromacil		100	88.3	ng/L	88	(60-140)	30	4.4
MBLK	Bromacil			<5	ng/L				
MRL_CHK	Bromacil		5	4.32	ng/L	87	(50-150)		
MS_202202150582	Bromacil	ND	100	95.1	ng/L	95	(60-140)		
MSD_202202150582	Bromacil	ND	100	86.1	ng/L	86	(60-140)	30	10
LCS1	Caffeine		100	76.3	ng/L	76	(60-140)		
LCS2	Caffeine		100	83.2	ng/L	83	(60-140)	30	8.7
MBLK	Caffeine			<10	ng/L				
MRL_CHK	Caffeine		5	4.44	ng/L	89	(50-150)		
MS_202202150582	Caffeine	ND	100	95.4	ng/L	93	(60-140)		
MSD_202202150582	Caffeine	ND	100	81.3	ng/L	79	(60-140)	30	16
LCS1	Carbadox		100	89.4	ng/L	89	(60-140)		
LCS2	Carbadox		100	79.7	ng/L	80	(60-140)	30	12
MBLK	Carbadox			<5	ng/L				
MRL_CHK	Carbadox		5	4.92	ng/L	99	(50-150)		
MS_202202150582	Carbadox	ND	100	85.0	ng/L	85	(60-140)		
MSD_202202150582	Carbadox	ND	100	76.3	ng/L	76	(60-140)	30	11
LCS1	Carbamazepine		100	88.6	ng/L	89	(60-140)		
LCS2	Carbamazepine		100	97.0	ng/L	97	(60-140)	30	9.1
MBLK	Carbamazepine			<5	ng/L				
MRL_CHK	Carbamazepine		5	5.01	ng/L	100	(50-150)		
MS_202202150582	Carbamazepine	ND	100	102	ng/L	102	(60-140)		
MSD_202202150582	Carbamazepine	ND	100	100	ng/L	100	(60-140)	30	2.2
LCS1	Carisoprodol		100	139	ng/L	139	(60-140)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Carisoprodol		100	60.8	ng/L	61	(60-140)	30	**78**
MBLK	Carisoprodol			<5	ng/L				
MRL_CHK	Carisoprodol		5	2.93	ng/L	59	(50-150)		
MS_202202150582	Carisoprodol	ND	100	127	ng/L	127	(60-140)		
MSD_202202150582	Carisoprodol	ND	100	121	ng/L	121	(60-140)	30	5.0
LCS1	Chloridazon		100	91.8	ng/L	92	(60-140)		
LCS2	Chloridazon		100	77.0	ng/L	77	(60-140)	30	18
MBLK	Chloridazon			<5	ng/L				
MRL_CHK	Chloridazon		5	3.50	ng/L	70	(50-150)		
MS_202202150582	Chloridazon	ND	100	96.6	ng/L	97	(60-140)		
MSD_202202150582	Chloridazon	ND	100	91.4	ng/L	91	(60-140)	30	5.5
LCS1	Chlorotoluron		100	96.9	ng/L	97	(60-140)		
LCS2	Chlorotoluron		100	94.2	ng/L	94	(60-140)	30	2.8
MBLK	Chlorotoluron			<5	ng/L				
MRL_CHK	Chlorotoluron		5	3.96	ng/L	79	(50-150)		
MS_202202150582	Chlorotoluron	ND	100	103	ng/L	103	(60-140)		
MSD_202202150582	Chlorotoluron	ND	100	98.1	ng/L	98	(60-140)	30	4.8
LCS1	Cimetidine		100	88.6	ng/L	89	(60-140)		
LCS2	Cimetidine		100	83.1	ng/L	83	(60-140)	30	6.4
MBLK	Cimetidine			<5	ng/L				
MRL_CHK	Cimetidine		5	2.92	ng/L	58	(50-150)		
MS_202202150582	Cimetidine	ND	100	21.4	ng/L	**21**	(60-140)		
MSD_202202150582	Cimetidine	ND	100	23.4	ng/L	**23**	(60-140)	30	9.1
LCS1	Cotinine		100	104	ng/L	104	(60-140)		
LCS2	Cotinine		100	86.4	ng/L	86	(60-140)	30	19
MBLK	Cotinine			<10	ng/L				
MRL_CHK	Cotinine		5	4.80	ng/L	96	(50-150)		
MS_202202150582	Cotinine	ND	100	106	ng/L	107	(60-140)		
MSD_202202150582	Cotinine	ND	100	94.8	ng/L	95	(60-140)	30	12
LCS1	DACT (semi-quantitative)		100	97.6	ng/L	98	(60-140)		
LCS2	DACT (semi-quantitative)		100	89.3	ng/L	89	(60-140)	30	9.0
MBLK	DACT (semi-quantitative)			<20	ng/L				
MRL_CHK	DACT (semi-quantitative)		20	18.6	ng/L	93	(50-150)		
MS_202202150582	DACT (semi-quantitative)	ND	100	93.0	ng/L	93	(60-140)		
MSD_202202150582	DACT (semi-quantitative)	ND	100	88.0	ng/L	88	(60-140)	30	5.6
LCS1	DEA		100	91.4	ng/L	91	(60-140)		
LCS2	DEA		100	97.0	ng/L	97	(60-140)	30	5.9
MBLK	DEA			<5	ng/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	DEA		5	4.34	ng/L	87	(50-150)		
MS_202202150582	DEA	ND	100	120	ng/L	120	(60-140)		
MSD_202202150582	DEA	ND	100	84.2	ng/L	84	(60-140)	30	**35**
LCS1	DEET		40	37.3	ng/L	93	(60-140)		
LCS2	DEET		40	35.9	ng/L	90	(60-140)	30	3.8
MBLK	DEET			<10	ng/L				
MRL_CHK	DEET		8	10.7	ng/L	134	(50-150)		
MS_202202150582	DEET	ND	40	38.1	ng/L	90	(60-140)		
MSD_202202150582	DEET	ND	40	34.6	ng/L	81	(60-140)	30	9.7
LCS1	Dehydronifedipine		100	99.3	ng/L	99	(60-140)		
LCS2	Dehydronifedipine		100	106	ng/L	106	(60-140)	30	6.5
MBLK	Dehydronifedipine			<5	ng/L				
MRL_CHK	Dehydronifedipine		5	3.52	ng/L	70	(50-150)		
MS_202202150582	Dehydronifedipine	ND	100	167	ng/L	**167**	(60-140)		
MSD_202202150582	Dehydronifedipine	ND	100	153	ng/L	**153**	(60-140)	30	8.6
LCS1	DIA		100	93.6	ng/L	94	(60-140)		
LCS2	DIA		100	92.7	ng/L	93	(60-140)	30	0.97
MBLK	DIA			<5	ng/L				
MRL_CHK	DIA		5	3.43	ng/L	69	(50-150)		
MS_202202150582	DIA	ND	100	111	ng/L	111	(60-140)		
MSD_202202150582	DIA	ND	100	99.4	ng/L	99	(60-140)	30	11
LCS1	Diazepam		100	87.0	ng/L	87	(60-140)		
LCS2	Diazepam		100	94.0	ng/L	94	(60-140)	30	7.7
MBLK	Diazepam			<5	ng/L				
MRL_CHK	Diazepam		5	3.78	ng/L	76	(50-150)		
MS_202202150582	Diazepam	ND	100	98.6	ng/L	99	(60-140)		
MSD_202202150582	Diazepam	ND	100	89.1	ng/L	89	(60-140)	30	10
LCS1	Dilantin		400	368	ng/L	92	(60-140)		
LCS2	Dilantin		400	370	ng/L	93	(60-140)	30	0.54
MBLK	Dilantin			<20	ng/L				
MRL_CHK	Dilantin		20	17.2	ng/L	86	(50-150)		
MS_202202150582	Dilantin	ND	400	426	ng/L	107	(60-140)		
MSD_202202150582	Dilantin	ND	400	383	ng/L	96	(60-140)	30	11
LCS1	Diltiazem		100	102	ng/L	102	(60-140)		
LCS2	Diltiazem		100	82.3	ng/L	82	(60-140)	30	21
MBLK	Diltiazem			<5	ng/L				
MRL_CHK	Diltiazem		5	3.97	ng/L	79	(50-150)		
MS_202202150582	Diltiazem	ND	100	93.9	ng/L	94	(60-140)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202150582	Diltiazem	ND	100	90.7	ng/L	91	(60-140)	30	3.5
LCS1	Diuron		100	100	ng/L	100	(60-140)		
LCS2	Diuron		100	97.9	ng/L	98	(60-140)	30	2.1
MBLK	Diuron			<5	ng/L				
MRL_CHK	Diuron		5	5.39	ng/L	108	(50-150)		
MS_202202150582	Diuron	ND	100	112	ng/L	112	(60-140)		
MSD_202202150582	Diuron	ND	100	103	ng/L	103	(60-140)	30	8.1
LCS1	Erythromycin (semi-quantitative)		200	183	ng/L	92	(60-140)		
LCS2	Erythromycin (semi-quantitative)		200	200	ng/L	100	(60-140)	30	8.9
MBLK	Erythromycin (semi-quantitative)			<20	ng/L				
MRL_CHK	Erythromycin (semi-quantitative)		10	8.17	ng/L	82	(50-150)		
MS_202202150582	Erythromycin (semi-quantitative)	ND	200	216	ng/L	108	(60-140)		
MSD_202202150582	Erythromycin (semi-quantitative)	ND	200	186	ng/L	93	(60-140)	30	15
LCS1	Flumeqine		200	188	ng/L	94	(60-140)		
LCS2	Flumeqine		200	182	ng/L	91	(60-140)	30	3.2
MBLK	Flumeqine			<10	ng/L				
MRL_CHK	Flumeqine		10	7.54	ng/L	75	(50-150)		
MS_202202150582	Flumeqine	ND	200	200	ng/L	100	(60-140)		
MSD_202202150582	Flumeqine	ND	200	182	ng/L	91	(60-140)	30	9.2
LCS1	Fluoxetine		100	97.8	ng/L	98	(60-140)		
LCS2	Fluoxetine		100	93.6	ng/L	94	(60-140)	30	4.4
MBLK	Fluoxetine			<10	ng/L				
MRL_CHK	Fluoxetine		5	3.59	ng/L	72	(50-150)		
MS_202202150582	Fluoxetine	ND	100	114	ng/L	114	(60-140)		
MSD_202202150582	Fluoxetine	ND	100	99.1	ng/L	99	(60-140)	30	14
LCS1	Isoproturon		400	374	ng/L	94	(60-140)		
LCS2	Isoproturon		400	410	ng/L	103	(60-140)	30	9.2
MBLK	Isoproturon			<20	ng/L				
MRL_CHK	Isoproturon		20	15.3	ng/L	76	(50-150)		
MS_202202150582	Isoproturon	ND	400	431	ng/L	108	(60-140)		
MSD_202202150582	Isoproturon	ND	400	376	ng/L	94	(60-140)	30	13
LCS1	Ketoprofen		100	99.2	ng/L	99	(60-140)		
LCS2	Ketoprofen		100	93.7	ng/L	94	(60-140)	30	5.7
MBLK	Ketoprofen			<5	ng/L				
MRL_CHK	Ketoprofen		5	4.11	ng/L	82	(50-150)		
MS_202202150582	Ketoprofen	ND	100	102	ng/L	102	(60-140)		
MSD_202202150582	Ketoprofen	ND	100	93.4	ng/L	93	(60-140)	30	8.7
LCS1	Ketorolac		100	92.9	ng/L	93	(60-140)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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LCS2	Ketorolac		100	90.4	ng/L	90	(60-140)	30	2.7
MBLK	Ketorolac			<5	ng/L				
MRL_CHK	Ketorolac		5	3.77	ng/L	75	(50-150)		
MS_202202150582	Ketorolac	ND	100	105	ng/L	105	(60-140)		
MSD_202202150582	Ketorolac	ND	100	88.6	ng/L	89	(60-140)	30	17
LCS1	Lidocaine		100	87.1	ng/L	87	(60-140)		
LCS2	Lidocaine		100	93.0	ng/L	93	(60-140)	30	6.5
MBLK	Lidocaine			<5	ng/L				
MRL_CHK	Lidocaine		5	3.07	ng/L	62	(50-150)		
MS_202202150582	Lidocaine	ND	100	99.3	ng/L	99	(60-140)		
MSD_202202150582	Lidocaine	ND	100	107	ng/L	107	(60-140)	30	7.5
LCS1	Lincomycin		200	170	ng/L	85	(60-140)		
LCS2	Lincomycin		200	206	ng/L	103	(60-140)	30	19
MBLK	Lincomycin			<10	ng/L				
MRL_CHK	Lincomycin		10	7.20	ng/L	72	(50-150)		
MS_202202150582	Lincomycin	ND	200	166	ng/L	83	(60-140)		
MSD_202202150582	Lincomycin	ND	200	154	ng/L	77	(60-140)	30	7.5
LCS1	Linuron		100	91.1	ng/L	91	(60-140)		
LCS2	Linuron		100	98.1	ng/L	98	(60-140)	30	7.4
MBLK	Linuron			<5	ng/L				
MRL_CHK	Linuron		5	4.26	ng/L	85	(50-150)		
MS_202202150582	Linuron	ND	100	96.4	ng/L	96	(60-140)		
MSD_202202150582	Linuron	ND	100	93.5	ng/L	93	(60-140)	30	3.1
LCS1	Lopressor		400	396	ng/L	99	(60-140)		
LCS2	Lopressor		400	313	ng/L	78	(60-140)	30	24
MBLK	Lopressor			<20	ng/L				
MRL_CHK	Lopressor		20	14.3	ng/L	71	(50-150)		
MS_202202150582	Lopressor	ND	400	378	ng/L	94	(60-140)		
MSD_202202150582	Lopressor	ND	400	376	ng/L	94	(60-140)	30	0.21
LCS1	Meclofenamic Acid		100	91.0	ng/L	91	(60-140)		
LCS2	Meclofenamic Acid		100	90.5	ng/L	91	(60-140)	30	0.55
MBLK	Meclofenamic Acid			<20	ng/L				
MRL_CHK	Meclofenamic Acid		5	5.75	ng/L	115	(50-150)		
MS_202202150582	Meclofenamic Acid	ND	100	86.9	ng/L	85	(60-140)		
MSD_202202150582	Meclofenamic Acid	ND	100	82.1	ng/L	80	(60-140)	30	5.6
LCS1	Meprobamate		100	60.6	ng/L	61	(60-140)		
LCS2	Meprobamate		100	97.1	ng/L	97	(60-140)	30	**46**
MBLK	Meprobamate			<5	ng/L				

Spike recovery is already corrected for native results.
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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Group: PPCP

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Meprobamate		5	3.36	ng/L	67	(50-150)		
MS_202202150582	Meprobamate	ND	100	94.3	ng/L	94	(60-140)		
MSD_202202150582	Meprobamate	ND	100	59.1	ng/L	**59**	(60-140)	30	**46**
LCS1	Metazachlor		100	93.5	ng/L	94	(60-140)		
LCS2	Metazachlor		100	96.0	ng/L	96	(60-140)	30	2.6
MBLK	Metazachlor			<5	ng/L				
MRL_CHK	Metazachlor		5	4.24	ng/L	85	(50-150)		
MS_202202150582	Metazachlor	ND	100	101	ng/L	101	(60-140)		
MSD_202202150582	Metazachlor	ND	100	91.6	ng/L	92	(60-140)	30	9.7
LCS1	Metformin		100	87.6	ng/L	88	(60-140)		
LCS2	Metformin		100	96.5	ng/L	97	(60-140)	30	9.6
MBLK	Metformin			<20	ng/L				
MRL_CHK	Metformin		20	21.2	ng/L	106	(50-150)		
MS_202202150582	Metformin	ND	100	99.9	ng/L	98	(60-140)		
MSD_202202150582	Metformin	ND	100	97.4	ng/L	96	(60-140)	30	2.5
LCS1	Metolachlor		100	101	ng/L	101	(60-140)		
LCS2	Metolachlor		100	102	ng/L	102	(60-140)	30	0.99
MBLK	Metolachlor			<5	ng/L				
MRL_CHK	Metolachlor		5	4.58	ng/L	92	(50-150)		
MS_202202150582	Metolachlor	ND	100	95.9	ng/L	96	(60-140)		
MSD_202202150582	Metolachlor	ND	100	92.6	ng/L	92	(60-140)	30	3.5
LCS1	Nifedipine		400	381	ng/L	95	(60-140)		
LCS2	Nifedipine		400	402	ng/L	101	(60-140)	30	5.4
MBLK	Nifedipine			<20	ng/L				
MRL_CHK	Nifedipine		20	14.7	ng/L	73	(50-150)		
MS_202202150582	Nifedipine	ND	400	293	ng/L	73	(60-140)		
MSD_202202150582	Nifedipine	ND	400	274	ng/L	68	(60-140)	30	6.8
LCS1	Norethisterone		100	92.7	ng/L	93	(60-140)		
LCS2	Norethisterone		100	93.7	ng/L	94	(60-140)	30	1.1
MBLK	Norethisterone			<10	ng/L				
MRL_CHK	Norethisterone		5	4.56	ng/L	91	(50-150)		
MS_202202150582	Norethisterone	ND	100	94.9	ng/L	95	(60-140)		
MSD_202202150582	Norethisterone	ND	100	97.9	ng/L	98	(60-140)	30	3.1
LCS1	OUST (Sulfameturon,methyl)		100	91.5	ng/L	92	(60-140)		
LCS2	OUST (Sulfameturon,methyl)		100	88.8	ng/L	89	(60-140)	30	3.0
MBLK	OUST (Sulfameturon,methyl)			<5	ng/L				
MRL_CHK	OUST (Sulfameturon,methyl)		5	4.34	ng/L	87	(50-150)		
MS_202202150582	OUST (Sulfameturon,methyl)	ND	100	97.6	ng/L	97	(60-140)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202150582	OUST (Sulfameturon,methyl)	ND	100	88.5	ng/L	88	(60-140)	30	9.8
LCS1	Oxolinic acid		100	88.2	ng/L	88	(60-140)		
LCS2	Oxolinic acid		100	95.5	ng/L	96	(60-140)	30	8.0
MBLK	Oxolinic acid			<10	ng/L				
MRL_CHK	Oxolinic acid		5	4.13	ng/L	83	(50-150)		
MS_202202150582	Oxolinic acid	ND	100	96.1	ng/L	96	(60-140)		
MSD_202202150582	Oxolinic acid	ND	100	86.9	ng/L	86	(60-140)	30	10
LCS1	Pentoxifylline		100	88.7	ng/L	89	(60-140)		
LCS2	Pentoxifylline		100	94.5	ng/L	95	(60-140)	30	6.3
MBLK	Pentoxifylline			<5	ng/L				
MRL_CHK	Pentoxifylline		5	3.89	ng/L	78	(50-150)		
MS_202202150582	Pentoxifylline	ND	100	108	ng/L	108	(60-140)		
MSD_202202150582	Pentoxifylline	ND	100	88.5	ng/L	89	(60-140)	30	19
LCS1	Phenazone		100	97.4	ng/L	97	(60-140)		
LCS2	Phenazone		100	96.8	ng/L	97	(60-140)	30	0.62
MBLK	Phenazone			<5	ng/L				
MRL_CHK	Phenazone		5	4.82	ng/L	96	(50-150)		
MS_202202150582	Phenazone	ND	100	102	ng/L	100	(60-140)		
MSD_202202150582	Phenazone	ND	100	91.4	ng/L	90	(60-140)	30	11
LCS1	Primidone		100	91.6	ng/L	92	(60-140)		
LCS2	Primidone		100	85.6	ng/L	86	(60-140)	30	6.8
MBLK	Primidone			<5	ng/L				
MRL_CHK	Primidone		5	4.78	ng/L	96	(50-150)		
MS_202202150582	Primidone	ND	100	98.2	ng/L	98	(60-140)		
MSD_202202150582	Primidone	ND	100	94.0	ng/L	94	(60-140)	30	4.3
LCS1	Progesterone		100	92.8	ng/L	93	(60-140)		
LCS2	Progesterone		100	93.4	ng/L	94	(60-140)	30	0.75
MBLK	Progesterone			<10	ng/L				
MRL_CHK	Progesterone		5	4.46	ng/L	89	(50-150)		
MS_202202150582	Progesterone	ND	100	99.3	ng/L	99	(60-140)		
MSD_202202150582	Progesterone	ND	100	88.8	ng/L	88	(60-140)	30	11
LCS1	Propazine		100	93.1	ng/L	93	(60-140)		
LCS2	Propazine		100	92.4	ng/L	92	(60-140)	30	0.76
MBLK	Propazine			<5	ng/L				
MRL_CHK	Propazine		5	4.57	ng/L	91	(50-150)		
MS_202202150582	Propazine	ND	100	93.0	ng/L	93	(60-140)		
MSD_202202150582	Propazine	ND	100	88.2	ng/L	88	(60-140)	30	5.3
LCS1	Quinoline		100	90.3	ng/L	90	(60-140)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Quinoline		100	90.4	ng/L	90	(60-140)	30	0.11
MBLK	Quinoline			<20	ng/L				
MRL_CHK	Quinoline		20	20.5	ng/L	103	(50-150)		
MS_202202150582	Quinoline	ND	100	94.1	ng/L	92	(60-140)		
MSD_202202150582	Quinoline	ND	100	105	ng/L	103	(60-140)	30	11
LCS1	Simazine		100	100	ng/L	100	(60-140)		
LCS2	Simazine		100	91.5	ng/L	92	(60-140)	30	8.9
MBLK	Simazine			<5	ng/L				
MRL_CHK	Simazine		5	4.34	ng/L	87	(50-150)		
MS_202202150582	Simazine	ND	100	82.8	ng/L	83	(60-140)		
MSD_202202150582	Simazine	ND	100	109	ng/L	109	(60-140)	30	27
LCS1	Sulfachloropyridazine		100	89.8	ng/L	90	(60-140)		
LCS2	Sulfachloropyridazine		100	90.6	ng/L	91	(60-140)	30	0.89
MBLK	Sulfachloropyridazine			<5	ng/L				
MRL_CHK	Sulfachloropyridazine		5	5.02	ng/L	100	(50-150)		
MS_202202150582	Sulfachloropyridazine	ND	100	97.4	ng/L	97	(60-140)		
MSD_202202150582	Sulfachloropyridazine	ND	100	86.5	ng/L	86	(60-140)	30	12
LCS1	Sulfadiazine		100	87.6	ng/L	88	(60-140)		
LCS2	Sulfadiazine		100	82.0	ng/L	82	(60-140)	30	6.6
MBLK	Sulfadiazine			<5	ng/L				
MRL_CHK	Sulfadiazine		5	4.27	ng/L	85	(50-150)		
MS_202202150582	Sulfadiazine	ND	100	89.8	ng/L	90	(60-140)		
MSD_202202150582	Sulfadiazine	ND	100	91.7	ng/L	92	(60-140)	30	2.1
LCS1	Sulfadimethoxine		100	92.5	ng/L	93	(60-140)		
LCS2	Sulfadimethoxine		100	98.3	ng/L	98	(60-140)	30	6.1
MBLK	Sulfadimethoxine			<5	ng/L				
MRL_CHK	Sulfadimethoxine		5	5.12	ng/L	102	(50-150)		
MS_202202150582	Sulfadimethoxine	ND	100	102	ng/L	101	(60-140)		
MSD_202202150582	Sulfadimethoxine	ND	100	86.2	ng/L	85	(60-140)	30	17
LCS1	Sulfamerazine		100	92.0	ng/L	92	(60-140)		
LCS2	Sulfamerazine		100	84.2	ng/L	84	(60-140)	30	8.8
MBLK	Sulfamerazine			<5	ng/L				
MRL_CHK	Sulfamerazine		5	3.68	ng/L	74	(50-150)		
MS_202202150582	Sulfamerazine	ND	100	87.7	ng/L	88	(60-140)		
MSD_202202150582	Sulfamerazine	ND	100	89.4	ng/L	89	(60-140)	30	1.9
LCS1	Sulfamethazine		100	89.7	ng/L	90	(60-140)		
LCS2	Sulfamethazine		100	103	ng/L	103	(60-140)	30	14
MBLK	Sulfamethazine			<5	ng/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Sulfamethazine		5	4.26	ng/L	85	(50-150)		
MS_202202150582	Sulfamethazine	ND	100	113	ng/L	113	(60-140)		
MSD_202202150582	Sulfamethazine	ND	100	93.7	ng/L	94	(60-140)	30	18
LCS1	Sulfamethizole		100	88.3	ng/L	88	(60-140)		
LCS2	Sulfamethizole		100	91.5	ng/L	92	(60-140)	30	3.6
MBLK	Sulfamethizole			<20	ng/L				
MRL_CHK	Sulfamethizole		5	4.82	ng/L	96	(50-150)		
MS_202202150582	Sulfamethizole	ND	100	95.8	ng/L	96	(60-140)		
MSD_202202150582	Sulfamethizole	ND	100	86.9	ng/L	87	(60-140)	30	9.7
LCS1	Sulfamethoxazole		100	85.3	ng/L	85	(60-140)		
LCS2	Sulfamethoxazole		100	88.0	ng/L	88	(60-140)	30	3.1
MBLK	Sulfamethoxazole			<5	ng/L				
MRL_CHK	Sulfamethoxazole		5	4.80	ng/L	96	(50-150)		
MS_202202150582	Sulfamethoxazole	ND	100	95.8	ng/L	96	(60-140)		
MSD_202202150582	Sulfamethoxazole	ND	100	83.6	ng/L	83	(60-140)	30	14
LCS1	Sulfathiazole		100	89.4	ng/L	89	(60-140)		
LCS2	Sulfathiazole		100	87.3	ng/L	87	(60-140)	30	2.4
MBLK	Sulfathiazole			<5	ng/L				
MRL_CHK	Sulfathiazole		5	3.77	ng/L	76	(50-150)		
MS_202202150582	Sulfathiazole	ND	100	97.0	ng/L	96	(60-140)		
MSD_202202150582	Sulfathiazole	ND	100	91.4	ng/L	91	(60-140)	30	5.9
LCS1	TCEP		100	86.9	ng/L	87	(60-140)		
LCS2	TCEP		100	89.3	ng/L	89	(60-140)	30	2.7
MBLK	TCEP			<10	ng/L				
MRL_CHK	TCEP		5	3.24	ng/L	65	(50-150)		
MS_202202150582	TCEP	ND	100	77.7	ng/L	77	(60-140)		
MSD_202202150582	TCEP	ND	100	83.7	ng/L	83	(60-140)	30	7.4
LCS1	TCPP		1000	783	ng/L	78	(60-140)		
LCS2	TCPP		1000	998	ng/L	100	(60-140)	30	24
MBLK	TCPP			<200	ng/L				
MRL_CHK	TCPP		200	71.7	ng/L	**36**	(50-150)		
MS_202202150582	TCPP		1000	1120	ng/L	112	(60-140)		
MSD_202202150582	TCPP		1000	1130	ng/L	113	(60-140)	30	0.72
LCS1	TDCPP		1000	1030	ng/L	103	(60-140)		
LCS2	TDCPP		1000	980	ng/L	98	(60-140)	30	5.0
MBLK	TDCPP			<100	ng/L				
MRL_CHK	TDCPP		50	34.6	ng/L	69	(50-150)		
MS_202202150582	TDCPP	ND	1000	922	ng/L	92	(60-140)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202150582	TDCPP	ND	1000	890	ng/L	89	(60-140)	30	3.6
LCS1	Testosterone		100	82.1	ng/L	82	(60-140)		
LCS2	Testosterone		100	96.0	ng/L	96	(60-140)	30	16
MBLK	Testosterone			<5	ng/L				
MRL_CHK	Testosterone		5	3.72	ng/L	74	(50-150)		
MS_202202150582	Testosterone	ND	100	103	ng/L	103	(60-140)		
MSD_202202150582	Testosterone	ND	100	84.2	ng/L	84	(60-140)	30	20
LCS1	Theobromine		400	333	ng/L	83	(60-140)		
LCS2	Theobromine		400	379	ng/L	95	(60-140)	30	13
MBLK	Theobromine			<50	ng/L				
MRL_CHK	Theobromine		20	23.4	ng/L	117	(50-150)		
MS_202202150582	Theobromine	ND	400	379	ng/L	95	(60-140)		
MSD_202202150582	Theobromine	ND	400	323	ng/L	81	(60-140)	30	16
LCS1	Theophylline		200	186	ng/L	93	(60-140)		
LCS2	Theophylline		200	197	ng/L	99	(60-140)	30	5.7
MBLK	Theophylline			<10	ng/L				
MRL_CHK	Theophylline		10	9.25	ng/L	93	(50-150)		
MS_202202150582	Theophylline	ND	200	220	ng/L	110	(60-140)		
MSD_202202150582	Theophylline	ND	200	197	ng/L	98	(60-140)	30	11
LCS1	Thiabendazole		100	82.2	ng/L	82	(60-140)		
LCS2	Thiabendazole		100	89.5	ng/L	90	(60-140)	30	8.5
MBLK	Thiabendazole			<5	ng/L				
MRL_CHK	Thiabendazole		5	5.77	ng/L	115	(50-150)		
MS_202202150582	Thiabendazole	ND	100	96.0	ng/L	96	(60-140)		
MSD_202202150582	Thiabendazole	ND	100	90.1	ng/L	90	(60-140)	30	6.4
LCS1	Trimethoprim		100	93.5	ng/L	94	(60-140)		
LCS2	Trimethoprim		100	116	ng/L	116	(60-140)	30	22
MBLK	Trimethoprim			<5	ng/L				
MRL_CHK	Trimethoprim		5	2.64	ng/L	53	(50-150)		
MS_202202150582	Trimethoprim	ND	100	98.8	ng/L	99	(60-140)		
MSD_202202150582	Trimethoprim	ND	100	96.9	ng/L	97	(60-140)	30	1.9

Endocrine Disruptors Negative Mode - SPE by LC-MS-MS

Analytical Batch: 1388907 **Analysis Date: 02/23/2022**

LCS	2,4-D	100	99.7	ng/L	100	(60-140)		
LCSD	2,4-D	100	95.6	ng/L	96	(60-140)	30	4.2
MBLK	2,4-D		<50	ng/L				
MRL_CHK	2,4-D	5	4.77	ng/L	95	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_202202150531	2,4-D	ND	100	130	ng/L	122	(60-140)		
MSD1_202202150531	2,4-D	ND	100	122	ng/L	114	(60-140)	30	6.7
LCS	4-nonylphenol - semi quantitative		2000	2330	ng/L	117	(60-140)		
LCSD	4-nonylphenol - semi quantitative		2000	2150	ng/L	108	(60-140)	30	8.0
MBLK	4-nonylphenol - semi quantitative			<200	ng/L				
MRL_CHK	4-nonylphenol - semi quantitative		100	119	ng/L	119	(50-150)		
MS1_202202150531	4-nonylphenol - semi quantitative	ND	2000	2010	ng/L	101	(60-140)		
MSD1_202202150531	4-nonylphenol - semi quantitative	ND	2000	2160	ng/L	108	(60-140)	30	7.2
LCS	4-tert-octylphenol		500	598	ng/L	120	(60-140)		
LCSD	4-tert-octylphenol		500	544	ng/L	109	(60-140)	30	9.6
MBLK	4-tert-octylphenol			<50	ng/L				
MRL_CHK	4-tert-octylphenol		25	27.3	ng/L	109	(50-150)		
MS1_202202150531	4-tert-octylphenol	ND	500	572	ng/L	114	(60-140)		
MSD1_202202150531	4-tert-octylphenol	ND	500	563	ng/L	112	(60-140)	30	1.5
LCS	Acesulfame-K		400	400	ng/L	100	(60-140)		
LCSD	Acesulfame-K		400	396	ng/L	99	(60-140)	30	1.3
MBLK	Acesulfame-K			<20	ng/L				
MRL_CHK	Acesulfame-K		20	20.9	ng/L	105	(50-150)		
MS1_202202150531	Acesulfame-K	45	400	456	ng/L	103	(60-140)		
MSD1_202202150531	Acesulfame-K	45	400	437	ng/L	98	(60-140)	30	4.2
LCS	Bendroflumethiazide		100	105	ng/L	105	(60-140)		
LCSD	Bendroflumethiazide		100	103	ng/L	103	(60-140)	30	1.9
MBLK	Bendroflumethiazide			<10	ng/L				
MRL_CHK	Bendroflumethiazide		5	5.50	ng/L	110	(50-150)		
MS1_202202150531	Bendroflumethiazide	ND	100	111	ng/L	111	(60-140)		
MSD1_202202150531	Bendroflumethiazide	ND	100	113	ng/L	113	(60-140)	30	2.0
LCS	BPA		100	104	ng/L	104	(60-140)		
LCSD	BPA		100	100	ng/L	100	(60-140)	30	3.9
MBLK	BPA			<10	ng/L				
MRL_CHK	BPA		10	10.7	ng/L	107	(50-150)		
MS1_202202150531	BPA	ND	100	104	ng/L	104	(60-140)		
MSD1_202202150531	BPA	ND	100	103	ng/L	103	(60-140)	30	0.86
LCS	Butalbital		100	104	ng/L	104	(60-140)		
LCSD	Butalbital		100	99.4	ng/L	99	(60-140)	30	4.5
MBLK	Butalbital			<10	ng/L				
MRL_CHK	Butalbital		5	4.39	ng/L	88	(50-150)		
MS1_202202150531	Butalbital	ND	100	113	ng/L	113	(60-140)		
MSD1_202202150531	Butalbital	ND	100	109	ng/L	109	(60-140)	30	3.9

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Group: PPCP

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS	Butylparben		100	102	ng/L	102	(60-140)		
LCSD	Butylparben		100	102	ng/L	102	(60-140)	30	0.0
MBLK	Butylparben			<5	ng/L				
MRL_CHK	Butylparben		5	5.25	ng/L	105	(50-150)		
MS1_202202150531	Butylparben	ND	100	106	ng/L	105	(60-140)		
MSD1_202202150531	Butylparben	ND	100	107	ng/L	107	(60-140)	30	0.97
LCS	Chloramphenicol		100	96.1	ng/L	96	(60-140)		
LCSD	Chloramphenicol		100	95.2	ng/L	95	(60-140)	30	0.94
MBLK	Chloramphenicol			<10	ng/L				
MRL_CHK	Chloramphenicol		10	10.3	ng/L	103	(50-150)		
MS1_202202150531	Chloramphenicol	ND	100	98.3	ng/L	98	(60-140)		
MSD1_202202150531	Chloramphenicol	ND	100	98.2	ng/L	98	(60-140)	30	0.1
LCS	Clofibric Acid		100	99.9	ng/L	100	(60-140)		
LCSD	Clofibric Acid		100	99.9	ng/L	100	(60-140)	30	0.0
MBLK	Clofibric Acid			<5	ng/L				
MRL_CHK	Clofibric Acid		5	4.89	ng/L	98	(50-150)		
MS1_202202150531	Clofibric Acid	ND	100	108	ng/L	108	(60-140)		
MSD1_202202150531	Clofibric Acid	ND	100	103	ng/L	103	(60-140)	30	4.5
LCS	Diclofenac		100	106	ng/L	106	(60-140)		
LCSD	Diclofenac		100	107	ng/L	107	(60-140)	30	0.94
MBLK	Diclofenac			<5	ng/L				
MRL_CHK	Diclofenac		5	4.47	ng/L	89	(50-150)		
MS1_202202150531	Diclofenac	ND	100	109	ng/L	109	(60-140)		
MSD1_202202150531	Diclofenac	ND	100	106	ng/L	106	(60-140)	30	2.8
LCS	Estradiol		100	106	ng/L	106	(60-140)		
LCSD	Estradiol		100	101	ng/L	101	(60-140)	30	4.8
MBLK	Estradiol			<5	ng/L				
MRL_CHK	Estradiol		5	6.53	ng/L	131	(50-150)		
MS1_202202150531	Estradiol	ND	100	105	ng/L	105	(60-140)		
MSD1_202202150531	Estradiol	ND	100	105	ng/L	105	(60-140)	30	0.049
LCS	Estriol		100	111	ng/L	111	(60-140)		
LCSD	Estriol		100	101	ng/L	101	(60-140)	30	9.4
MBLK	Estriol			<5	ng/L				
MRL_CHK	Estriol		5	5.20	ng/L	104	(50-150)		
MS1_202202150531	Estriol	ND	100	75.1	ng/L	74	(60-140)		
MSD1_202202150531	Estriol	ND	100	66.8	ng/L	65	(60-140)	30	12
LCS	Estrone		100	113	ng/L	113	(60-140)		
LCSD	Estrone		100	104	ng/L	104	(60-140)	30	8.3

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Estrone			<5	ng/L				
MRL_CHK	Estrone		5	7.08	ng/L	142	(50-150)		
MS1_202202150531	Estrone	ND	100	109	ng/L	106	(60-140)		
MSD1_202202150531	Estrone	ND	100	112	ng/L	109	(60-140)	30	2.5
LCS	Ethinyl Estradiol - 17 alpha		100	110	ng/L	110	(60-140)		
LCSD	Ethinyl Estradiol - 17 alpha		100	108	ng/L	108	(60-140)	30	1.8
MBLK	Ethinyl Estradiol - 17 alpha			<5	ng/L				
MRL_CHK	Ethinyl Estradiol - 17 alpha		5	4.93	ng/L	99	(50-150)		
MS1_202202150531	Ethinyl Estradiol - 17 alpha	ND	100	98.4	ng/L	98	(60-140)		
MSD1_202202150531	Ethinyl Estradiol - 17 alpha	ND	100	104	ng/L	104	(60-140)	30	5.5
LCS	Ethylparaben		400	408	ng/L	102	(60-140)		
LCSD	Ethylparaben		400	411	ng/L	103	(60-140)	30	0.49
MBLK	Ethylparaben			<20	ng/L				
MRL_CHK	Ethylparaben		20	20.8	ng/L	104	(50-150)		
MS1_202202150531	Ethylparaben	ND	400	427	ng/L	106	(60-140)		
MSD1_202202150531	Ethylparaben	ND	400	419	ng/L	104	(60-140)	30	2.0
LCS	Gemfibrozil		100	100	ng/L	100	(60-140)		
LCSD	Gemfibrozil		100	99.9	ng/L	100	(60-140)	30	0.10
MBLK	Gemfibrozil			<5	ng/L				
MRL_CHK	Gemfibrozil		5	5.29	ng/L	106	(50-150)		
MS1_202202150531	Gemfibrozil	ND	100	103	ng/L	102	(60-140)		
MSD1_202202150531	Gemfibrozil	ND	100	101	ng/L	100	(60-140)	30	1.6
LCS	Ibuprofen		100	102	ng/L	102	(60-140)		
LCSD	Ibuprofen		100	99.5	ng/L	100	(60-140)	30	2.5
MBLK	Ibuprofen			<25	ng/L				
MRL_CHK	Ibuprofen		5	5.35	ng/L	107	(50-150)		
MS1_202202150531	Ibuprofen	ND	100	121	ng/L	120	(60-140)		
MSD1_202202150531	Ibuprofen	ND	100	114	ng/L	113	(60-140)	30	5.8
LCS	Iohexol		200	214	ng/L	107	(60-140)		
LCSD	Iohexol		200	214	ng/L	107	(60-140)	30	0.0
MBLK	Iohexol			<20	ng/L				
MRL_CHK	Iohexol		20	23.1	ng/L	116	(50-150)		
MS1_202202150531	Iohexol	45	200	266	ng/L	109	(60-140)		
MSD1_202202150531	Iohexol	45	200	260	ng/L	106	(60-140)	30	2.1
LCS	Iopromide		100	98.8	ng/L	99	(60-140)		
LCSD	Iopromide		100	98.3	ng/L	98	(60-140)	30	0.51
MBLK	Iopromide			<10	ng/L				
MRL_CHK	Iopromide		5	4.78	ng/L	96	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_202202150531	Iopromide	ND	100	99.4	ng/L	99	(60-140)		
MSD1_202202150531	Iopromide	ND	100	95.8	ng/L	96	(60-140)	30	3.5
LCS	Isobutylparaben		100	104	ng/L	104	(60-140)		
LCSD	Isobutylparaben		100	102	ng/L	102	(60-140)	30	1.9
MBLK	Isobutylparaben			<5	ng/L				
MRL_CHK	Isobutylparaben		5	5.20	ng/L	104	(50-150)		
MS1_202202150531	Isobutylparaben	ND	100	91.3	ng/L	91	(60-140)		
MSD1_202202150531	Isobutylparaben	ND	100	94.5	ng/L	94	(60-140)	30	3.5
LCS	Methylparaben		400	406	ng/L	101	(60-140)		
LCSD	Methylparaben		400	405	ng/L	101	(60-140)	30	0.25
MBLK	Methylparaben			<20	ng/L				
MRL_CHK	Methylparaben		20	20.1	ng/L	100	(50-150)		
MS1_202202150531	Methylparaben	ND	400	427	ng/L	106	(60-140)		
MSD1_202202150531	Methylparaben	ND	400	421	ng/L	105	(60-140)	30	1.4
LCS	Naproxen		100	99.8	ng/L	100	(60-140)		
LCSD	Naproxen		100	100	ng/L	100	(60-140)	30	0.20
MBLK	Naproxen			<20	ng/L				
MRL_CHK	Naproxen		5	5.36	ng/L	107	(50-150)		
MS1_202202150531	Naproxen	ND	100	104	ng/L	103	(60-140)		
MSD1_202202150531	Naproxen	ND	100	97.7	ng/L	97	(60-140)	30	6.5
LCS	Propylparaben		100	100	ng/L	100	(60-140)		
LCSD	Propylparaben		100	99.8	ng/L	100	(60-140)	30	0.20
MBLK	Propylparaben			<5	ng/L				
MRL_CHK	Propylparaben		5	4.92	ng/L	98	(50-150)		
MS1_202202150531	Propylparaben	ND	100	91.0	ng/L	91	(60-140)		
MSD1_202202150531	Propylparaben	ND	100	93.1	ng/L	93	(60-140)	30	2.2
LCS	Salicylic Acid		2000	2150	ng/L	107	(60-140)		
LCSD	Salicylic Acid		2000	2140	ng/L	107	(60-140)	30	0.47
MBLK	Salicylic Acid			<200	ng/L				
MRL_CHK	Salicylic Acid		100	83.1	ng/L	83	(50-150)		
MS1_202202150531	Salicylic Acid	520	2000	3010	ng/L	123	(60-140)		
MSD1_202202150531	Salicylic Acid	520	2000	2880	ng/L	117	(60-140)	30	4.3
LCS	Sucralose		2000	1980	ng/L	99	(60-140)		
LCSD	Sucralose		2000	2000	ng/L	100	(60-140)	30	1.5
MBLK	Sucralose			<100	ng/L				
MRL_CHK	Sucralose		100	97.8	ng/L	98	(50-150)		
MS1_202202150531	Sucralose	1800	2000	3770	ng/L	99	(60-140)		
MSD1_202202150531	Sucralose	1800	2000	3710	ng/L	96	(60-140)	30	1.7

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS	Triclocarban		400	447	ng/L	112	(60-140)		
LCSD	Triclocarban		400	415	ng/L	104	(60-140)	30	7.4
MBLK	Triclocarban			<50	ng/L				
MRL_CHK	Triclocarban		20	24.2	ng/L	121	(50-150)		
MS1_202202150531	Triclocarban	ND	400	393	ng/L	98	(60-140)		
MSD1_202202150531	Triclocarban	ND	400	430	ng/L	105	(60-140)	30	8.9
LCS	Triclosan		100	113	ng/L	113	(60-140)		
LCSD	Triclosan		100	106	ng/L	106	(60-140)	30	6.4
MBLK	Triclosan			<25	ng/L				
MRL_CHK	Triclosan		5	6.23	ng/L	125	(50-150)		
MS1_202202150531	Triclosan	ND	100	119	ng/L	117	(60-140)		
MSD1_202202150531	Triclosan	ND	100	115	ng/L	112	(60-140)	30	3.8
LCS	Warfarin		100	103	ng/L	103	(60-140)		
LCSD	Warfarin		100	103	ng/L	103	(60-140)	30	0.0
MBLK	Warfarin			<5	ng/L				
MRL_CHK	Warfarin		5	5.16	ng/L	103	(50-150)		
MS1_202202150531	Warfarin	ND	100	91.0	ng/L	91	(60-140)		
MSD1_202202150531	Warfarin	ND	100	87.4	ng/L	87	(60-140)	30	4.0

Endocrine Disruptors Positive Mode - SPE by LC-MS-MS

Analytical Batch: 1389632 **Analysis Date: 02/25/2022**

LCS1	1,7-Dimethylxanthine		100	106	ng/L	106	(60-140)		
LCS2	1,7-Dimethylxanthine		100	113	ng/L	113	(60-140)	30	6.4
MBLK	1,7-Dimethylxanthine			<5	ng/L				
MRL_CHK	1,7-Dimethylxanthine		5	5.21	ng/L	104	(50-150)		
MS_202202231346	1,7-Dimethylxanthine	76	100	218	ng/L	**145**	(60-140)		
MSD_202202231346	1,7-Dimethylxanthine	76	100	203	ng/L	130	(60-140)	30	7.1
LCS1	Acetaminophen		100	87.3	ng/L	87	(60-140)		
LCS2	Acetaminophen		100	94.1	ng/L	94	(60-140)	30	7.5
MBLK	Acetaminophen			<10	ng/L				
MRL_CHK	Acetaminophen		5	2.97	ng/L	59	(50-150)		
MS_202202231346	Acetaminophen	870	100	384	ng/L	**47**	(60-140)		
MSD_202202231346	Acetaminophen	870	100	448	ng/L	111	(60-140)	30	15
LCS1	Albuterol		100	121	ng/L	121	(60-140)		
LCS2	Albuterol		100	112	ng/L	112	(60-140)	30	7.7
MBLK	Albuterol			<5	ng/L				
MRL_CHK	Albuterol		5	4.49	ng/L	90	(50-150)		
MS_202202231346	Albuterol	ND	100	142	ng/L	140	(60-140)		

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MSD_202202231346	Albuterol	ND	100	147	ng/L	**146**	(60-140)	30	3.7
LCS1	Amoxicillin (semi-quantitative)		400	508	ng/L	127	(60-140)		
LCS2	Amoxicillin (semi-quantitative)		400	437	ng/L	109	(60-140)	30	15
MBLK	Amoxicillin (semi-quantitative)			<20	ng/L				
MRL_CHK	Amoxicillin (semi-quantitative)		20	17.3	ng/L	87	(50-150)		
MS_202202231346	Amoxicillin (semi-quantitative)	ND	400	806	ng/L	**202**	(60-140)		
MSD_202202231346	Amoxicillin (semi-quantitative)	ND	400	1010	ng/L	**252**	(60-140)	30	22
LCS1	Andorostenedione		100	112	ng/L	112	(60-140)		
LCS2	Andorostenedione		100	110	ng/L	111	(60-140)	30	0.90
MBLK	Andorostenedione			<5	ng/L				
MRL_CHK	Andorostenedione		5	3.53	ng/L	71	(50-150)		
MS_202202231346	Andorostenedione		100	309	ng/L	**145**	(60-140)		
MSD_202202231346	Andorostenedione		100	301	ng/L	137	(60-140)	30	2.6
LCS1	Atenolol		100	106	ng/L	106	(60-140)		
LCS2	Atenolol		100	103	ng/L	103	(60-140)	30	2.9
MBLK	Atenolol			<5	ng/L				
MRL_CHK	Atenolol		5	5.29	ng/L	106	(50-150)		
MS_202202231346	Atenolol	460	100	0	ng/L	**-13.4**	(60-140)		
MSD_202202231346	Atenolol	460	100	23.0	ng/L	**9.4**	(60-140)	30	**200**
LCS1	Atrazine		100	97.3	ng/L	97	(60-140)		
LCS2	Atrazine		100	101	ng/L	101	(60-140)	30	3.7
MBLK	Atrazine			<5	ng/L				
MRL_CHK	Atrazine		5	4.02	ng/L	80	(50-150)		
MS_202202231346	Atrazine	ND	100	103	ng/L	103	(60-140)		
MSD_202202231346	Atrazine	ND	100	114	ng/L	114	(60-140)	30	9.7
LCS1	Bezafibrate		100	110	ng/L	110	(60-140)		
LCS2	Bezafibrate		100	121	ng/L	121	(60-140)	30	9.5
MBLK	Bezafibrate			<5	ng/L				
MRL_CHK	Bezafibrate		5	5.84	ng/L	117	(50-150)		
MS_202202231346	Bezafibrate	ND	100	2720	ng/L	**-917**	(60-140)		
MSD_202202231346	Bezafibrate	ND	100	3720	ng/L	83	(60-140)	30	**31**
LCS1	Bromacil		100	109	ng/L	109	(60-140)		
LCS2	Bromacil		100	111	ng/L	111	(60-140)	30	1.8
MBLK	Bromacil			<5	ng/L				
MRL_CHK	Bromacil		5	5.13	ng/L	103	(50-150)		
MS_202202231346	Bromacil	ND	100	62.1	ng/L	62	(60-140)		
MSD_202202231346	Bromacil	ND	100	69.9	ng/L	70	(60-140)	30	12
LCS1	Caffeine		100	105	ng/L	105	(60-140)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Group: PPCP

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Caffeine		100	96.0	ng/L	96	(60-140)	30	9.0
MBLK	Caffeine			<10	ng/L				
MRL_CHK	Caffeine		5	4.44	ng/L	89	(50-150)		
MS_202202231346	Caffeine	400	100	578	ng/L	**9.9**	(60-140)		
MSD_202202231346	Caffeine	400	100	590	ng/L	**22**	(60-140)	30	2.1
LCS1	Carbadox		100	116	ng/L	116	(60-140)		
LCS2	Carbadox		100	93.3	ng/L	93	(60-140)	30	22
MBLK	Carbadox			<5	ng/L				
MRL_CHK	Carbadox		5	3.87	ng/L	77	(50-150)		
MS_202202231346	Carbadox	ND	100	288	ng/L	**250**	(60-140)		
MSD_202202231346	Carbadox	ND	100	376	ng/L	**339**	(60-140)	30	27
LCS1	Carbamazepine		100	127	ng/L	127	(60-140)		
LCS2	Carbamazepine		100	94.7	ng/L	95	(60-140)	30	29
MBLK	Carbamazepine			<5	ng/L				
MRL_CHK	Carbamazepine		5	4.37	ng/L	87	(50-150)		
MS_202202231346	Carbamazepine	ND	100	102	ng/L	103	(60-140)		
MSD_202202231346	Carbamazepine	ND	100	108	ng/L	108	(60-140)	30	5.1
LCS1	Carisoprodol		100	110	ng/L	110	(60-140)		
LCS2	Carisoprodol		100	90.2	ng/L	90	(60-140)	30	20
MBLK	Carisoprodol			<5	ng/L				
MRL_CHK	Carisoprodol		5	2.61	ng/L	52	(50-150)		
MS_202202231346	Carisoprodol	ND	100	57.6	ng/L	**58**	(60-140)		
MSD_202202231346	Carisoprodol	ND	100	99.7	ng/L	100	(60-140)	30	**54**
LCS1	Chloridazon		100	134	ng/L	134	(60-140)		
LCS2	Chloridazon		100	114	ng/L	115	(60-140)	30	15
MBLK	Chloridazon			<5	ng/L				
MRL_CHK	Chloridazon		5	3.50	ng/L	70	(50-150)		
MS_202202231346	Chloridazon	ND	100	99.9	ng/L	100	(60-140)		
MSD_202202231346	Chloridazon	ND	100	74.1	ng/L	74	(60-140)	30	30
LCS1	Chlorotoluron		100	113	ng/L	113	(60-140)		
LCS2	Chlorotoluron		100	111	ng/L	111	(60-140)	30	1.8
MBLK	Chlorotoluron			<5	ng/L				
MRL_CHK	Chlorotoluron		5	5.69	ng/L	114	(50-150)		
MS_202202231346	Chlorotoluron	ND	100	77.9	ng/L	78	(60-140)		
MSD_202202231346	Chlorotoluron	ND	100	75.2	ng/L	75	(60-140)	30	3.5
LCS1	Cimetidine		100	106	ng/L	106	(60-140)		
LCS2	Cimetidine		100	100	ng/L	100	(60-140)	30	5.8
MBLK	Cimetidine			<5	ng/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Cimetidine		5	4.98	ng/L	100	(50-150)		
MS_202202231346	Cimetidine	ND	100	130	ng/L	130	(60-140)		
MSD_202202231346	Cimetidine	ND	100	142	ng/L	**143**	(60-140)	30	9.4
LCS1	Cotinine		100	110	ng/L	110	(60-140)		
LCS2	Cotinine		100	100	ng/L	100	(60-140)	30	9.5
MBLK	Cotinine			<10	ng/L				
MRL_CHK	Cotinine		5	4.97	ng/L	99	(50-150)		
MS_202202231346	Cotinine	ND	100	145	ng/L	85	(60-140)		
MSD_202202231346	Cotinine	ND	100	150	ng/L	90	(60-140)	30	3.3
LCS1	DACT (semi-quantitative)		100	104	ng/L	104	(60-140)		
LCS2	DACT (semi-quantitative)		100	95.0	ng/L	95	(60-140)	30	9.1
MBLK	DACT (semi-quantitative)			<20	ng/L				
MRL_CHK	DACT (semi-quantitative)		20	20.8	ng/L	104	(50-150)		
MS_202202231346	DACT (semi-quantitative)		100	93.2	ng/L	80	(60-140)		
MSD_202202231346	DACT (semi-quantitative)		100	88.7	ng/L	76	(60-140)	30	4.9
LCS1	DEA		100	103	ng/L	103	(60-140)		
LCS2	DEA		100	85.6	ng/L	86	(60-140)	30	19
MBLK	DEA			<5	ng/L				
MRL_CHK	DEA		5	4.60	ng/L	92	(50-150)		
MS_202202231346	DEA	ND	100	98.4	ng/L	98	(60-140)		
MSD_202202231346	DEA	ND	100	95.5	ng/L	96	(60-140)	30	3.0
LCS1	DEET		40	37.2	ng/L	93	(60-140)		
LCS2	DEET		40	36.3	ng/L	91	(60-140)	30	2.5
MBLK	DEET			<10	ng/L				
MRL_CHK	DEET		8	5.98	ng/L	75	(50-150)		
MS_202202231346	DEET		40	58.2	ng/L	**55**	(60-140)		
MSD_202202231346	DEET		40	60.5	ng/L	61	(60-140)	30	4.0
LCS1	Dehydronifedipine		100	116	ng/L	117	(60-140)		
LCS2	Dehydronifedipine		100	112	ng/L	112	(60-140)	30	4.4
MBLK	Dehydronifedipine			<5	ng/L				
MRL_CHK	Dehydronifedipine		5	3.96	ng/L	79	(50-150)		
MS_202202231346	Dehydronifedipine	ND	100	174	ng/L	**174**	(60-140)		
MSD_202202231346	Dehydronifedipine	ND	100	212	ng/L	**212**	(60-140)	30	20
LCS1	DIA		100	108	ng/L	108	(60-140)		
LCS2	DIA		100	104	ng/L	104	(60-140)	30	3.8
MBLK	DIA			<5	ng/L				
MRL_CHK	DIA		5	5.72	ng/L	114	(50-150)		
MS_202202231346	DIA	ND	100	76.5	ng/L	73	(60-140)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202231346	DIA	ND	100	69.6	ng/L	66	(60-140)	30	9.4
LCS1	Diazepam		100	116	ng/L	116	(60-140)		
LCS2	Diazepam		100	109	ng/L	109	(60-140)	30	6.2
MBLK	Diazepam			<5	ng/L				
MRL_CHK	Diazepam		5	4.52	ng/L	90	(50-150)		
MS_202202231346	Diazepam	ND	100	258	ng/L	**256**	(60-140)		
MSD_202202231346	Diazepam	ND	100	152	ng/L	**150**	(60-140)	30	**52**
LCS1	Dilantin		400	440	ng/L	110	(60-140)		
LCS2	Dilantin		400	409	ng/L	102	(60-140)	30	7.3
MBLK	Dilantin			<20	ng/L				
MRL_CHK	Dilantin		20	16.7	ng/L	84	(50-150)		
MS_202202231346	Dilantin	ND	400	305	ng/L	76	(60-140)		
MSD_202202231346	Dilantin	ND	400	307	ng/L	77	(60-140)	30	0.55
LCS1	Diltiazem		100	104	ng/L	104	(60-140)		
LCS2	Diltiazem		100	83.6	ng/L	84	(60-140)	30	22
MBLK	Diltiazem			<5	ng/L				
MRL_CHK	Diltiazem		5	4.60	ng/L	92	(50-150)		
MS_202202231346	Diltiazem	ND	100	102	ng/L	102	(60-140)		
MSD_202202231346	Diltiazem	ND	100	96.3	ng/L	96	(60-140)	30	6.2
LCS1	Diuron		100	97.5	ng/L	98	(60-140)		
LCS2	Diuron		100	114	ng/L	114	(60-140)	30	16
MBLK	Diuron			<5	ng/L				
MRL_CHK	Diuron		5	5.31	ng/L	106	(50-150)		
MS_202202231346	Diuron	530	100	535	ng/L	122	(60-140)		
MSD_202202231346	Diuron	530	100	476	ng/L	63	(60-140)	30	12
LCS1	Erythromycin (semi-quantitative)		200	193	ng/L	97	(60-140)		
LCS2	Erythromycin (semi-quantitative)		200	148	ng/L	74	(60-140)	30	26
MBLK	Erythromycin (semi-quantitative)			<20	ng/L				
MRL_CHK	Erythromycin (semi-quantitative)		10	8.16	ng/L	82	(50-150)		
MS_202202231346	Erythromycin (semi-quantitative)		200	254	ng/L	109	(60-140)		
MSD_202202231346	Erythromycin (semi-quantitative)		200	118	ng/L	**41**	(60-140)	30	**73**
LCS1	Flumeqine		200	230	ng/L	115	(60-140)		
LCS2	Flumeqine		200	229	ng/L	114	(60-140)	30	0.44
MBLK	Flumeqine			<10	ng/L				
MRL_CHK	Flumeqine		10	5.67	ng/L	57	(50-150)		
MS_202202231346	Flumeqine		200	213	ng/L	107	(60-140)		
MSD_202202231346	Flumeqine		200	276	ng/L	138	(60-140)	30	26
LCS1	Fluoxetine		100	124	ng/L	124	(60-140)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Fluoxetine		100	122	ng/L	122	(60-140)	30	1.6
MBLK	Fluoxetine			<10	ng/L				
MRL_CHK	Fluoxetine		5	4.50	ng/L	90	(50-150)		
MS_202202231346	Fluoxetine	ND	100	373	ng/L	**56**	(60-140)		
MSD_202202231346	Fluoxetine	ND	100	307	ng/L	**-9.25**	(60-140)	30	19
LCS1	Isoproturon		400	462	ng/L	115	(60-140)		
LCS2	Isoproturon		400	494	ng/L	124	(60-140)	30	6.7
MBLK	Isoproturon			<20	ng/L				
MRL_CHK	Isoproturon		20	18.8	ng/L	94	(50-150)		
MS_202202231346	Isoproturon	ND	400	280	ng/L	70	(60-140)		
MSD_202202231346	Isoproturon	ND	400	268	ng/L	67	(60-140)	30	4.5
LCS1	Ketoprofen		100	113	ng/L	113	(60-140)		
LCS2	Ketoprofen		100	116	ng/L	116	(60-140)	30	2.6
MBLK	Ketoprofen			<5	ng/L				
MRL_CHK	Ketoprofen		5	4.41	ng/L	88	(50-150)		
MS_202202231346	Ketoprofen	ND	100	76.9	ng/L	75	(60-140)		
MSD_202202231346	Ketoprofen	ND	100	104	ng/L	102	(60-140)	30	30
LCS1	Ketorolac		100	94.8	ng/L	95	(60-140)		
LCS2	Ketorolac		100	101	ng/L	101	(60-140)	30	6.3
MBLK	Ketorolac			<5	ng/L				
MRL_CHK	Ketorolac		5	5.65	ng/L	113	(50-150)		
MS_202202231346	Ketorolac	ND	100	88.4	ng/L	62	(60-140)		
MSD_202202231346	Ketorolac	ND	100	79.0	ng/L	**53**	(60-140)	30	11
LCS1	Lidocaine		100	89.7	ng/L	90	(60-140)		
LCS2	Lidocaine		100	102	ng/L	102	(60-140)	30	13
MBLK	Lidocaine			<5	ng/L				
MRL_CHK	Lidocaine		5	4.95	ng/L	99	(50-150)		
MS_202202231346	Lidocaine	ND	100	140	ng/L	130	(60-140)		
MSD_202202231346	Lidocaine	ND	100	148	ng/L	138	(60-140)	30	5.3
LCS1	Lincomycin		200	235	ng/L	118	(60-140)		
LCS2	Lincomycin		200	227	ng/L	114	(60-140)	30	3.5
MBLK	Lincomycin			<10	ng/L				
MRL_CHK	Lincomycin		10	8.66	ng/L	87	(50-150)		
MS_202202231346	Lincomycin	ND	200	338	ng/L	**169**	(60-140)		
MSD_202202231346	Lincomycin	ND	200	422	ng/L	**211**	(60-140)	30	22
LCS1	Linuron		100	109	ng/L	109	(60-140)		
LCS2	Linuron		100	105	ng/L	105	(60-140)	30	3.7
MBLK	Linuron			<5	ng/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Linuron		5	5.41	ng/L	108	(50-150)		
MS_202202231346	Linuron	ND	100	102	ng/L	100	(60-140)		
MSD_202202231346	Linuron	ND	100	64.7	ng/L	62	(60-140)	30	**45**
LCS1	Lopressor		400	505	ng/L	126	(60-140)		
LCS2	Lopressor		400	488	ng/L	122	(60-140)	30	3.4
MBLK	Lopressor			<20	ng/L				
MRL_CHK	Lopressor		20	18.1	ng/L	90	(50-150)		
MS_202202231346	Lopressor	ND	400	238	ng/L	60	(60-140)		
MSD_202202231346	Lopressor	ND	400	402	ng/L	101	(60-140)	30	**51**
LCS1	Meclofenamic Acid		100	75.4	ng/L	75	(60-140)		
LCS2	Meclofenamic Acid		100	84.9	ng/L	85	(60-140)	30	12
MBLK	Meclofenamic Acid			<20	ng/L				
MRL_CHK	Meclofenamic Acid		5	3.86	ng/L	77	(50-150)		
MS_202202231346	Meclofenamic Acid	ND	100	6.66	ng/L	**3.5**	(60-140)		
MSD_202202231346	Meclofenamic Acid	ND	100	9.38	ng/L	**6.2**	(60-140)	30	**34**
LCS1	Meprobamate		100	126	ng/L	126	(60-140)		
LCS2	Meprobamate		100	83.9	ng/L	84	(60-140)	30	**40**
MBLK	Meprobamate			<5	ng/L				
MRL_CHK	Meprobamate		5	7.00	ng/L	140	(50-150)		
MS_202202231346	Meprobamate	ND	100	142	ng/L	88	(60-140)		
MSD_202202231346	Meprobamate	ND	100	111	ng/L	**58**	(60-140)	30	24
LCS1	Metazachlor		100	139	ng/L	139	(60-140)		
LCS2	Metazachlor		100	131	ng/L	131	(60-140)	30	5.9
MBLK	Metazachlor			<5	ng/L				
MRL_CHK	Metazachlor		5	4.48	ng/L	90	(50-150)		
MS_202202231346	Metazachlor	ND	100	102	ng/L	102	(60-140)		
MSD_202202231346	Metazachlor	ND	100	246	ng/L	**246**	(60-140)	30	**83**
LCS1	Metformin		100	104	ng/L	104	(60-140)		
LCS2	Metformin		100	103	ng/L	103	(60-140)	30	0.97
MBLK	Metformin			<20	ng/L				
MRL_CHK	Metformin		20	20.4	ng/L	102	(50-150)		
MS_202202231346	Metformin	ND	100	320	ng/L	**14**	(60-140)		
MSD_202202231346	Metformin	ND	100	359	ng/L	**52**	(60-140)	30	11
LCS1	Metolachlor		100	118	ng/L	118	(60-140)		
LCS2	Metolachlor		100	113	ng/L	113	(60-140)	30	4.3
MBLK	Metolachlor			<5	ng/L				
MRL_CHK	Metolachlor		5	4.69	ng/L	94	(50-150)		
MS_202202231346	Metolachlor	ND	100	61.0	ng/L	61	(60-140)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202231346	Metolachlor	ND	100	41.5	ng/L	**41**	(60-140)	30	**38**
LCS1	Nifedipine		400	488	ng/L	122	(60-140)		
LCS2	Nifedipine		400	450	ng/L	112	(60-140)	30	8.3
MBLK	Nifedipine			<20	ng/L				
MRL_CHK	Nifedipine		20	20.6	ng/L	103	(50-150)		
MS_202202231346	Nifedipine	ND	400	688	ng/L	**172**	(60-140)		
MSD_202202231346	Nifedipine	ND	400	577	ng/L	**144**	(60-140)	30	18
LCS1	Norethisterone		100	108	ng/L	108	(60-140)		
LCS2	Norethisterone		100	105	ng/L	105	(60-140)	30	2.8
MBLK	Norethisterone			<10	ng/L				
MRL_CHK	Norethisterone		5	4.08	ng/L	82	(50-150)		
MS_202202231346	Norethisterone	320	100	14300	ng/L	**-4210**	(60-140)		
MSD_202202231346	Norethisterone	320	100	16200	ng/L	**-2230**	(60-140)	30	13
LCS1	OUST (Sulfameturon,methyl)		100	108	ng/L	108	(60-140)		
LCS2	OUST (Sulfameturon,methyl)		100	103	ng/L	103	(60-140)	30	4.7
MBLK	OUST (Sulfameturon,methyl)			<5	ng/L				
MRL_CHK	OUST (Sulfameturon,methyl)		5	4.04	ng/L	81	(50-150)		
MS_202202231346	OUST (Sulfameturon,methyl)	ND	100	11900	ng/L	**-835**	(60-140)		
MSD_202202231346	OUST (Sulfameturon,methyl)	ND	100	12800	ng/L	106	(60-140)	30	7.5
LCS1	Oxolinic acid		100	101	ng/L	101	(60-140)		
LCS2	Oxolinic acid		100	97.0	ng/L	97	(60-140)	30	4.0
MBLK	Oxolinic acid			<10	ng/L				
MRL_CHK	Oxolinic acid		5	5.05	ng/L	101	(50-150)		
MS_202202231346	Oxolinic acid	ND	100	145	ng/L	**145**	(60-140)		
MSD_202202231346	Oxolinic acid	ND	100	119	ng/L	119	(60-140)	30	20
LCS1	Pentoxifylline		100	99.1	ng/L	99	(60-140)		
LCS2	Pentoxifylline		100	100	ng/L	100	(60-140)	30	0.90
MBLK	Pentoxifylline			<5	ng/L				
MRL_CHK	Pentoxifylline		5	4.71	ng/L	94	(50-150)		
MS_202202231346	Pentoxifylline	ND	100	117	ng/L	117	(60-140)		
MSD_202202231346	Pentoxifylline	ND	100	110	ng/L	110	(60-140)	30	6.0
LCS1	Phenazone		100	94.1	ng/L	94	(60-140)		
LCS2	Phenazone		100	123	ng/L	123	(60-140)	30	27
MBLK	Phenazone			<5	ng/L				
MRL_CHK	Phenazone		5	4.48	ng/L	90	(50-150)		
MS_202202231346	Phenazone	260	100	937	ng/L	98	(60-140)		
MSD_202202231346	Phenazone	260	100	992	ng/L	**153**	(60-140)	30	5.7
LCS1	Primidone		100	96.5	ng/L	97	(60-140)		

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Report: 987476
Project: SUBCONTRACT
Group: PPCP

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Primidone		100	112	ng/L	112	(60-140)	30	15
MBLK	Primidone			<5	ng/L				
MRL_CHK	Primidone		5	4.98	ng/L	100	(50-150)		
MS_202202231346	Primidone	ND	100	125	ng/L	125	(60-140)		
MSD_202202231346	Primidone	ND	100	139	ng/L	139	(60-140)	30	11
LCS1	Progesterone		100	104	ng/L	104	(60-140)		
LCS2	Progesterone		100	113	ng/L	113	(60-140)	30	8.3
MBLK	Progesterone			<10	ng/L				
MRL_CHK	Progesterone		5	4.47	ng/L	89	(50-150)		
MS_202202231346	Progesterone	ND	100	27.0	ng/L	**27**	(60-140)		
MSD_202202231346	Progesterone	ND	100	18.1	ng/L	**18**	(60-140)	30	**40**
LCS1	Propazine		100	105	ng/L	105	(60-140)		
LCS2	Propazine		100	107	ng/L	107	(60-140)	30	1.9
MBLK	Propazine			<5	ng/L				
MRL_CHK	Propazine		5	3.94	ng/L	79	(50-150)		
MS_202202231346	Propazine	ND	100	80.3	ng/L	80	(60-140)		
MSD_202202231346	Propazine	ND	100	70.6	ng/L	70	(60-140)	30	13
LCS1	Quinoline		100	99.4	ng/L	100	(60-140)		
LCS2	Quinoline		100	113	ng/L	113	(60-140)	30	13
MBLK	Quinoline			<20	ng/L				
MRL_CHK	Quinoline		20	20.9	ng/L	105	(50-150)		
MS_202202231346	Quinoline	ND	100	191	ng/L	**26**	(60-140)		
MSD_202202231346	Quinoline	ND	100	187	ng/L	**22**	(60-140)	30	2.3
LCS1	Simazine		100	101	ng/L	101	(60-140)		
LCS2	Simazine		100	103	ng/L	103	(60-140)	30	2.0
MBLK	Simazine			<5	ng/L				
MRL_CHK	Simazine		5	3.18	ng/L	64	(50-150)		
MS_202202231346	Simazine	ND	100	98.4	ng/L	97	(60-140)		
MSD_202202231346	Simazine	ND	100	94.8	ng/L	93	(60-140)	30	3.8
LCS1	Sulfachloropyridazine		100	114	ng/L	114	(60-140)		
LCS2	Sulfachloropyridazine		100	101	ng/L	101	(60-140)	30	12
MBLK	Sulfachloropyridazine			<5	ng/L				
MRL_CHK	Sulfachloropyridazine		5	4.07	ng/L	81	(50-150)		
MS_202202231346	Sulfachloropyridazine	ND	100	83.2	ng/L	74	(60-140)		
MSD_202202231346	Sulfachloropyridazine	ND	100	84.4	ng/L	75	(60-140)	30	1.5
LCS1	Sulfadiazine		100	119	ng/L	119	(60-140)		
LCS2	Sulfadiazine		100	86.8	ng/L	87	(60-140)	30	**31**
MBLK	Sulfadiazine			<5	ng/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Sulfadiazine		5	4.44	ng/L	89	(50-150)		
MS_202202231346	Sulfadiazine	ND	100	110	ng/L	99	(60-140)		
MSD_202202231346	Sulfadiazine	ND	100	114	ng/L	102	(60-140)	30	3.4
LCS1	Sulfadimethoxine		100	117	ng/L	117	(60-140)		
LCS2	Sulfadimethoxine		100	104	ng/L	104	(60-140)	30	12
MBLK	Sulfadimethoxine			<5	ng/L				
MRL_CHK	Sulfadimethoxine		5	5.04	ng/L	101	(50-150)		
MS_202202231346	Sulfadimethoxine	ND	100	352	ng/L	**346**	(60-140)		
MSD_202202231346	Sulfadimethoxine	ND	100	265	ng/L	**259**	(60-140)	30	28
LCS1	Sulfamerazine		100	106	ng/L	106	(60-140)		
LCS2	Sulfamerazine		100	111	ng/L	111	(60-140)	30	4.6
MBLK	Sulfamerazine			<5	ng/L				
MRL_CHK	Sulfamerazine		5	4.61	ng/L	92	(50-150)		
MS_202202231346	Sulfamerazine	ND	100	91.0	ng/L	91	(60-140)		
MSD_202202231346	Sulfamerazine	ND	100	77.5	ng/L	78	(60-140)	30	16
LCS1	Sulfamethazine		100	136	ng/L	136	(60-140)		
LCS2	Sulfamethazine		100	104	ng/L	104	(60-140)	30	27
MBLK	Sulfamethazine			<5	ng/L				
MRL_CHK	Sulfamethazine		5	5.00	ng/L	100	(50-150)		
MS_202202231346	Sulfamethazine	ND	100	126	ng/L	126	(60-140)		
MSD_202202231346	Sulfamethazine	ND	100	111	ng/L	111	(60-140)	30	13
LCS1	Sulfamethizole		100	106	ng/L	106	(60-140)		
LCS2	Sulfamethizole		100	106	ng/L	106	(60-140)	30	0.0
MBLK	Sulfamethizole			<20	ng/L				
MRL_CHK	Sulfamethizole		5	4.85	ng/L	97	(50-150)		
MS_202202231346	Sulfamethizole	ND	100	40.8	ng/L	**41**	(60-140)		
MSD_202202231346	Sulfamethizole	ND	100	65.2	ng/L	65	(60-140)	30	**46**
LCS1	Sulfamethoxazole		100	86.8	ng/L	87	(60-140)		
LCS2	Sulfamethoxazole		100	87.2	ng/L	87	(60-140)	30	0.46
MBLK	Sulfamethoxazole			<5	ng/L				
MRL_CHK	Sulfamethoxazole		5	5.58	ng/L	112	(50-150)		
MS_202202231346	Sulfamethoxazole	100	100	108	ng/L	99	(60-140)		
MSD_202202231346	Sulfamethoxazole	100	100	104	ng/L	94	(60-140)	30	4.3
LCS1	Sulfathiazole		100	104	ng/L	104	(60-140)		
LCS2	Sulfathiazole		100	107	ng/L	107	(60-140)	30	2.8
MBLK	Sulfathiazole			<5	ng/L				
MRL_CHK	Sulfathiazole		5	5.22	ng/L	104	(50-150)		
MS_202202231346	Sulfathiazole	ND	100	128	ng/L	119	(60-140)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_202202231346	Sulfathiazole	ND	100	131	ng/L	122	(60-140)	30	2.2
LCS1	TCEP		100	102	ng/L	102	(60-140)		
LCS2	TCEP		100	110	ng/L	110	(60-140)	30	7.5
MBLK	TCEP			<10	ng/L				
MRL_CHK	TCEP		5	5.26	ng/L	105	(50-150)		
MS_202202231346	TCEP	480	100	540	ng/L	**51**	(60-140)		
MSD_202202231346	TCEP	480	100	453	ng/L	**-35.9**	(60-140)	30	18
LCS1	TCPP		1000	1400	ng/L	140	(60-140)		
LCS2	TCPP		1000	1350	ng/L	135	(60-140)	30	3.6
MBLK	TCPP			<200	ng/L				
MRL_CHK	TCPP		200	224	ng/L	112	(50-150)		
MS_202202231346	TCPP	ND	1000	2310	ng/L	**193**	(60-140)		
MSD_202202231346	TCPP	ND	1000	1280	ng/L	90	(60-140)	30	**58**
LCS1	TDCPP		1000	1160	ng/L	116	(60-140)		
LCS2	TDCPP		1000	1200	ng/L	120	(60-140)	30	3.4
MBLK	TDCPP			<100	ng/L				
MRL_CHK	TDCPP		50	51.0	ng/L	102	(50-150)		
MS_202202231346	TDCPP	ND	1000	580	ng/L	**39**	(60-140)		
MSD_202202231346	TDCPP	ND	1000	476	ng/L	**29**	(60-140)	30	20
LCS1	Testosterone		100	101	ng/L	101	(60-140)		
LCS2	Testosterone		100	92.0	ng/L	92	(60-140)	30	9.3
MBLK	Testosterone			<5	ng/L				
MRL_CHK	Testosterone		5	4.08	ng/L	82	(50-150)		
MS_202202231346	Testosterone	ND	100	326	ng/L	**326**	(60-140)		
MSD_202202231346	Testosterone	ND	100	65.7	ng/L	66	(60-140)	30	**130**
LCS1	Theobromine		400	411	ng/L	103	(60-140)		
LCS2	Theobromine		400	356	ng/L	89	(60-140)	30	14
MBLK	Theobromine			<50	ng/L				
MRL_CHK	Theobromine		20	22.1	ng/L	111	(50-150)		
MS_202202231346	Theobromine	ND	400	688	ng/L	106	(60-140)		
MSD_202202231346	Theobromine	ND	400	593	ng/L	83	(60-140)	30	15
LCS1	Theophylline		200	229	ng/L	115	(60-140)		
LCS2	Theophylline		200	210	ng/L	105	(60-140)	30	8.7
MBLK	Theophylline			<10	ng/L				
MRL_CHK	Theophylline		10	6.62	ng/L	66	(50-150)		
MS_202202231346	Theophylline	110	200	364	ng/L	137	(60-140)		
MSD_202202231346	Theophylline	110	200	368	ng/L	140	(60-140)	30	1.1
LCS1	Thiabendazole		100	133	ng/L	133	(60-140)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Thiabendazole		100	92.3	ng/L	92	(60-140)	30	**36**
MBLK	Thiabendazole			<5	ng/L				
MRL_CHK	Thiabendazole		5	5.00	ng/L	100	(50-150)		
MS_202202231346	Thiabendazole	ND	100	112	ng/L	96	(60-140)		
MSD_202202231346	Thiabendazole	ND	100	113	ng/L	97	(60-140)	30	0.65
LCS1	Trimethoprim		100	87.5	ng/L	88	(60-140)		
LCS2	Trimethoprim		100	97.3	ng/L	97	(60-140)	30	11
MBLK	Trimethoprim			<5	ng/L				
MRL_CHK	Trimethoprim		5	6.24	ng/L	125	(50-150)		
MS_202202231346	Trimethoprim	ND	100	5130	ng/L	**5130**	(60-140)		
MSD_202202231346	Trimethoprim	ND	100	3520	ng/L	**3520**	(60-140)	30	**37**
2,3,7,8-TCDD_Dioxin by EPA 1613B									
Prep Batch: 1389471 Analytical Batch: 1389941						**Analysis Date: 03/01/2022**			
DUP_202202101105	2,3,7,8-TCDD	ND		ND	pg/L		(0-20)		
LCS1	2,3,7,8-TCDD		200	206	pg/L	103	(73-146)		
LCS2	2,3,7,8-TCDD		200	193	pg/L	97	(73-146)	20	7.0
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5	5.57	pg/L	111	(50-150)		
MS_202202110388	2,3,7,8-TCDD	ND	200	202	pg/L	101	(73-146)		
DUP_202202101105	C12-2,3,7,8-TCDD (S)		2000	64.2	%	64	(31-137)		
LCS1	C12-2,3,7,8-TCDD (S)		2000	66.6	%	67	(25-141)		
LCS2	C12-2,3,7,8-TCDD (S)		2000	71.0	%	71	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			47.0	%	47	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)		2000	53.7	%	54	(25-141)		
MS_202202110388	C12-2,3,7,8-TCDD (S)		2000	70.3	%	70	(25-141)		
Endocrine Disruptors Negative Mode - SPE by LC-MS-MS									
Analytical Batch: 1390093						**Analysis Date: 02/28/2022**			
LCS	2,4-D		100	100	ng/L	100	(60-140)		
LCSD	2,4-D		100	99.6	ng/L	100	(60-140)	30	0.40
MBLK	2,4-D			<50	ng/L				
MRL_CHK	2,4-D		5	5.24	ng/L	105	(50-150)		
MS1_202202150531	2,4-D	ND	100	121	ng/L	121	(60-140)		
MSD1_202202150531	2,4-D	ND	100	128	ng/L	129	(60-140)	30	6.3
LCS	4-nonylphenol - semi quantitative		2000	2000	ng/L	100	(60-140)		
LCSD	4-nonylphenol - semi quantitative		2000	2000	ng/L	100	(60-140)	30	0.0
MBLK	4-nonylphenol - semi quantitative			<200	ng/L				
MRL_CHK	4-nonylphenol - semi quantitative		100	93.8	ng/L	94	(50-150)		

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MS1_202202150531	4-nonylphenol - semi quantitative	ND	2000	1910	ng/L	95	(60-140)		
MSD1_202202150531	4-nonylphenol - semi quantitative	ND	2000	2140	ng/L	107	(60-140)	30	12
LCS	4-tert-octylphenol		500	505	ng/L	101	(60-140)		
LCSD	4-tert-octylphenol		500	538	ng/L	108	(60-140)	30	6.3
MBLK	4-tert-octylphenol			<50	ng/L				
MRL_CHK	4-tert-octylphenol		25	23.1	ng/L	92	(50-150)		
MS1_202202150531	4-tert-octylphenol	ND	500	492	ng/L	98	(60-140)		
MSD1_202202150531	4-tert-octylphenol	ND	500	528	ng/L	106	(60-140)	30	7.1
LCS	Acesulfame-K		400	401	ng/L	100	(60-140)		
LCSD	Acesulfame-K		400	406	ng/L	102	(60-140)	30	1.5
MBLK	Acesulfame-K			<20	ng/L				
MRL_CHK	Acesulfame-K		20	21.0	ng/L	105	(50-150)		
MS1_202202150531	Acesulfame-K	45	400	447	ng/L	101	(60-140)		
MSD1_202202150531	Acesulfame-K	45	400	445	ng/L	100	(60-140)	30	0.54
LCS	Bendroflumethiazide		100	102	ng/L	102	(60-140)		
LCSD	Bendroflumethiazide		100	102	ng/L	102	(60-140)	30	0.0
MBLK	Bendroflumethiazide			<10	ng/L				
MRL_CHK	Bendroflumethiazide		5	5.19	ng/L	104	(50-150)		
MS1_202202150531	Bendroflumethiazide	ND	100	102	ng/L	102	(60-140)		
MSD1_202202150531	Bendroflumethiazide	ND	100	111	ng/L	111	(60-140)	30	8.9
LCS	BPA		100	105	ng/L	105	(60-140)		
LCSD	BPA		100	100	ng/L	100	(60-140)	30	4.9
MBLK	BPA			<10	ng/L				
MRL_CHK	BPA		10	8.78	ng/L	88	(50-150)		
MS1_202202150531	BPA	ND	100	97.1	ng/L	97	(60-140)		
MSD1_202202150531	BPA	ND	100	106	ng/L	106	(60-140)	30	8.8
LCS	Butalbital		100	102	ng/L	102	(60-140)		
LCSD	Butalbital		100	98.6	ng/L	99	(60-140)	30	3.4
MBLK	Butalbital			<10	ng/L				
MRL_CHK	Butalbital		5	5.85	ng/L	117	(50-150)		
MS1_202202150531	Butalbital	ND	100	107	ng/L	107	(60-140)		
MSD1_202202150531	Butalbital	ND	100	111	ng/L	111	(60-140)	30	3.6
LCS	Butylparben		100	105	ng/L	105	(60-140)		
LCSD	Butylparben		100	102	ng/L	102	(60-140)	30	2.9
MBLK	Butylparben			<5	ng/L				
MRL_CHK	Butylparben		5	4.90	ng/L	98	(50-150)		
MS1_202202150531	Butylparben	ND	100	104	ng/L	104	(60-140)		
MSD1_202202150531	Butylparben	ND	100	110	ng/L	110	(60-140)	30	6.0

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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(I) - Indicates internal standard compound.

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Report: 987476
Project: SUBCONTRACT
Group: PPCP

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS	Chloramphenicol		100	97.1	ng/L	97	(60-140)		
LCSD	Chloramphenicol		100	95.9	ng/L	96	(60-140)	30	1.2
MBLK	Chloramphenicol			<10	ng/L				
MRL_CHK	Chloramphenicol		10	10.2	ng/L	102	(50-150)		
MS1_202202150531	Chloramphenicol	ND	100	103	ng/L	103	(60-140)		
MSD1_202202150531	Chloramphenicol	ND	100	96.6	ng/L	97	(60-140)	30	6.2
LCS	Clofibric Acid		100	99.8	ng/L	100	(60-140)		
LCSD	Clofibric Acid		100	99.8	ng/L	100	(60-140)	30	0.0
MBLK	Clofibric Acid			<5	ng/L				
MRL_CHK	Clofibric Acid		5	5.02	ng/L	100	(50-150)		
MS1_202202150531	Clofibric Acid	ND	100	102	ng/L	102	(60-140)		
MSD1_202202150531	Clofibric Acid	ND	100	103	ng/L	103	(60-140)	30	1.0
LCS	Diclofenac		100	103	ng/L	103	(60-140)		
LCSD	Diclofenac		100	104	ng/L	104	(60-140)	30	0.97
MBLK	Diclofenac			<5	ng/L				
MRL_CHK	Diclofenac		5	4.47	ng/L	89	(50-150)		
MS1_202202150531	Diclofenac	ND	100	104	ng/L	104	(60-140)		
MSD1_202202150531	Diclofenac	ND	100	109	ng/L	109	(60-140)	30	5.2
LCS	Estradiol		100	99.4	ng/L	100	(60-140)		
LCSD	Estradiol		100	104	ng/L	104	(60-140)	30	4.4
MBLK	Estradiol			<5	ng/L				
MRL_CHK	Estradiol		5	5.72	ng/L	114	(50-150)		
MS1_202202150531	Estradiol	ND	100	101	ng/L	101	(60-140)		
MSD1_202202150531	Estradiol	ND	100	105	ng/L	105	(60-140)	30	4.0
LCS	Estriol		100	104	ng/L	104	(60-140)		
LCSD	Estriol		100	103	ng/L	103	(60-140)	30	0.97
MBLK	Estriol			<5	ng/L				
MRL_CHK	Estriol		5	5.63	ng/L	113	(50-150)		
MS1_202202150531	Estriol	ND	100	64.0	ng/L	64	(60-140)		
MSD1_202202150531	Estriol	ND	100	67.3	ng/L	67	(60-140)	30	5.1
LCS	Estrone		100	102	ng/L	102	(60-140)		
LCSD	Estrone		100	104	ng/L	104	(60-140)	30	1.9
MBLK	Estrone			<5	ng/L				
MRL_CHK	Estrone		5	5.30	ng/L	106	(50-150)		
MS1_202202150531	Estrone	ND	100	101	ng/L	101	(60-140)		
MSD1_202202150531	Estrone	ND	100	109	ng/L	109	(60-140)	30	7.8
LCS	Ethinyl Estradiol - 17 alpha		100	104	ng/L	104	(60-140)		
LCSD	Ethinyl Estradiol - 17 alpha		100	104	ng/L	104	(60-140)	30	0.0

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Group: PPCP

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Ethinyl Estradiol - 17 alpha			<5	ng/L				
MRL_CHK	Ethinyl Estradiol - 17 alpha		5	4.87	ng/L	98	(50-150)		
MS1_202202150531	Ethinyl Estradiol - 17 alpha	ND	100	103	ng/L	103	(60-140)		
MSD1_202202150531	Ethinyl Estradiol - 17 alpha	ND	100	99.0	ng/L	99	(60-140)	30	3.8
LCS	Ethylparaben		400	406	ng/L	101	(60-140)		
LCSD	Ethylparaben		400	409	ng/L	102	(60-140)	30	0.74
MBLK	Ethylparaben			<20	ng/L				
MRL_CHK	Ethylparaben		20	19.8	ng/L	99	(50-150)		
MS1_202202150531	Ethylparaben	ND	400	417	ng/L	104	(60-140)		
MSD1_202202150531	Ethylparaben	ND	400	418	ng/L	104	(60-140)	30	0.17
LCS	Gemfibrozil		100	100	ng/L	100	(60-140)		
LCSD	Gemfibrozil		100	102	ng/L	103	(60-140)	30	3.0
MBLK	Gemfibrozil			<5	ng/L				
MRL_CHK	Gemfibrozil		5	5.06	ng/L	101	(50-150)		
MS1_202202150531	Gemfibrozil	ND	100	101	ng/L	101	(60-140)		
MSD1_202202150531	Gemfibrozil	ND	100	104	ng/L	104	(60-140)	30	2.9
LCS	Ibuprofen		100	104	ng/L	104	(60-140)		
LCSD	Ibuprofen		100	102	ng/L	102	(60-140)	30	1.9
MBLK	Ibuprofen			<25	ng/L				
MRL_CHK	Ibuprofen		5	4.51	ng/L	90	(50-150)		
MS1_202202150531	Ibuprofen	ND	100	114	ng/L	115	(60-140)		
MSD1_202202150531	Ibuprofen	ND	100	122	ng/L	122	(60-140)	30	6.3
LCS	Iohexol		200	202	ng/L	101	(60-140)		
LCSD	Iohexol		200	204	ng/L	102	(60-140)	30	0.49
MBLK	Iohexol			<20	ng/L				
MRL_CHK	Iohexol		20	20.7	ng/L	103	(50-150)		
MS1_202202150531	Iohexol	45	200	232	ng/L	94	(60-140)		
MSD1_202202150531	Iohexol	45	200	253	ng/L	104	(60-140)	30	8.5
LCS	Iopromide		100	99.6	ng/L	100	(60-140)		
LCSD	Iopromide		100	99.3	ng/L	99	(60-140)	30	0.30
MBLK	Iopromide			<10	ng/L				
MRL_CHK	Iopromide		5	5.10	ng/L	102	(50-150)		
MS1_202202150531	Iopromide	ND	100	96.8	ng/L	97	(60-140)		
MSD1_202202150531	Iopromide	ND	100	98.2	ng/L	98	(60-140)	30	1.4
LCS	Isobutylparaben		100	101	ng/L	101	(60-140)		
LCSD	Isobutylparaben		100	106	ng/L	106	(60-140)	30	4.8
MBLK	Isobutylparaben			<5	ng/L				
MRL_CHK	Isobutylparaben		5	4.59	ng/L	92	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_202202150531	Isobutylparaben	ND	100	99.6	ng/L	100	(60-140)		
MSD1_202202150531	Isobutylparaben	ND	100	96.8	ng/L	97	(60-140)	30	2.9
LCS	Methylparaben		400	407	ng/L	102	(60-140)		
LCSD	Methylparaben		400	406	ng/L	102	(60-140)	30	0.25
MBLK	Methylparaben			<20	ng/L				
MRL_CHK	Methylparaben		20	18.4	ng/L	92	(50-150)		
MS1_202202150531	Methylparaben	ND	400	418	ng/L	105	(60-140)		
MSD1_202202150531	Methylparaben	ND	400	427	ng/L	107	(60-140)	30	2.1
LCS	Naproxen		100	95.6	ng/L	96	(60-140)		
LCSD	Naproxen		100	106	ng/L	106	(60-140)	30	10
MBLK	Naproxen			<20	ng/L				
MRL_CHK	Naproxen		5	4.47	ng/L	89	(50-150)		
MS1_202202150531	Naproxen	ND	100	105	ng/L	105	(60-140)		
MSD1_202202150531	Naproxen	ND	100	100	ng/L	100	(60-140)	30	4.6
LCS	Propylparaben		100	99.6	ng/L	100	(60-140)		
LCSD	Propylparaben		100	98.7	ng/L	99	(60-140)	30	0.91
MBLK	Propylparaben			<5	ng/L				
MRL_CHK	Propylparaben		5	4.60	ng/L	92	(50-150)		
MS1_202202150531	Propylparaben	ND	100	88.9	ng/L	89	(60-140)		
MSD1_202202150531	Propylparaben	ND	100	92.7	ng/L	93	(60-140)	30	4.2
LCS	Salicylic Acid		2000	1980	ng/L	99	(60-140)		
LCSD	Salicylic Acid		2000	2090	ng/L	105	(60-140)	30	5.4
MBLK	Salicylic Acid			<200	ng/L				
MRL_CHK	Salicylic Acid		100	97.6	ng/L	98	(50-150)		
MS1_202202150531	Salicylic Acid	520	2000	2610	ng/L	104	(60-140)		
MSD1_202202150531	Salicylic Acid	520	2000	2760	ng/L	112	(60-140)	30	5.6
LCS	Sucralose		2000	2030	ng/L	101	(60-140)		
LCSD	Sucralose		2000	2040	ng/L	102	(60-140)	30	0.49
MBLK	Sucralose			<100	ng/L				
MRL_CHK	Sucralose		100	95.1	ng/L	95	(50-150)		
MS1_202202150531	Sucralose	1800	2000	3620	ng/L	90	(60-140)		
MSD1_202202150531	Sucralose	1800	2000	3690	ng/L	94	(60-140)	30	1.9
LCS	Triclocarban		400	451	ng/L	113	(60-140)		
LCSD	Triclocarban		400	407	ng/L	102	(60-140)	30	10
MBLK	Triclocarban			<50	ng/L				
MRL_CHK	Triclocarban		20	20.6	ng/L	103	(50-150)		
MS1_202202150531	Triclocarban	ND	400	363	ng/L	91	(60-140)		
MSD1_202202150531	Triclocarban	ND	400	385	ng/L	96	(60-140)	30	5.8

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS	Triclosan		100	98.0	ng/L	98	(60-140)		
LCSD	Triclosan		100	99.7	ng/L	100	(60-140)	30	1.7
MBLK	Triclosan			<25	ng/L				
MRL_CHK	Triclosan		5	5.85	ng/L	117	(50-150)		
MS1_202202150531	Triclosan	ND	100	101	ng/L	101	(60-140)		
MSD1_202202150531	Triclosan	ND	100	107	ng/L	107	(60-140)	30	5.5
LCS	Warfarin		100	103	ng/L	103	(60-140)		
LCSD	Warfarin		100	105	ng/L	105	(60-140)	30	1.9
MBLK	Warfarin			<5	ng/L				
MRL_CHK	Warfarin		5	4.69	ng/L	94	(50-150)		
MS1_202202150531	Warfarin	ND	100	89.6	ng/L	90	(60-140)		
MSD1_202202150531	Warfarin	ND	100	93.0	ng/L	93	(60-140)	30	3.7

Spike recovery is already corrected for native results.
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A2LA ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

Eurofins Eaton Analytical
110 South Hill Street
South Bend, IN 46617-2702
Attention: Karen Fullmer
Fax: 574-233-8207

Date of Issue
02/27/2022
Rachelle Arada
EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

L6NW: Rachelle Arada

Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List
The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.
Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:
https://www.eurofinsus.com/Eaton

Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalert	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x	
Acrylamide	+LCMS 2440)	x	
Algal Toxins/Microcystin	+ LCMS 3570	x	
Alkalinity	SM 2320B	x	x
Ammonia	EPA 350.1, SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		x
Bromate	+LCMS- 2447	x	
Carbonate as CO3	SM 2330 B	x	x
Carbonyls	EPA 556	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	x	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	x	x
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+LCMS-3618	x	
Gross Alpha and Gross Beta	EPA 900.0	x	x

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+LCMS-2443	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	+ (GCMS 2412) by EPA 524.2 modified	x	

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.
(+) In-House Method

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Acknowledgement of Samples Received

Addr: **Eurofins Eaton Analytical**
110 South Hill Street
South Bend, IN 46617-2702

Attn: Karen Fullmer
Phone: 800-332-4345

Client ID: EEA-SOUTHBEND
Folder #: 987477
Project: SUBCONTRACT
Sample Group: Nitrosamine

Project Manager: Rachelle Arada
Phone: 626-386-1106
PO #: 810-14575-1

The following samples were received from you on **February 15, 2022** at **1519**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
202202150532	Finished (810-14575-1)	02/10/2022 1001
	Variable ID: 810-14575-1	
	@ML521_SPE	

Test Description

@ML521_SPE -- Nitrosamines by GCMS

South Bend, IN
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins Environment Testing America

957177

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mattheis, Joe	Carrier Tracking No(s):	COC No: 810-1965.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: joe.mattheis@eurofinset.com	State of Origin: South Carolina	Page: Page 1 of 1
Company: Eurofins Eaton Analytical		Accreditations Required (See note): State - South Carolina		Job #: 810-14575-1
Address: 750 Royal Oaks Drive, Suite 100,	Due Date Requested: 2/25/2022			
City: Monrovia	TAT Requested (days):			
State, Zip: CA, 91016				
Phone: 626-386-1100(Tel)	PO #:			
Email:	WO #:			
Project Name: Charleston Water System	Project #: 81001293			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Nitrosamines 9)/ Nitrosamines 9	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Finished (810-14575-1)	2/10/22	10:01 Eastern		Drinking Wate			X	2	Nitrosamines 9
									SS 2-14-22

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	2-14-22 1600	EEA	[signature]	2.15.22 15:19	EEA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

4

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 95A477

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 401 (Observation= 2.1 °C) (Corr.Factor -0.2 °C) (Final = 1.9 °C)

TYPE OF ICE: Real X Synthetic ____ No Ice ____ CONDITION OF ICE: Frozen ____ Partially Frozen X Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx (circled) / UPS / DHL / Area Fast / Top Line / Other: ________

550054095741

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)
3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

4 **Dioxin (1613 or 2,3,7,8 TCDD):** must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) **pH Check.** Manufacturer: ________ Lot Number: ________ pH strip type: 0 - 14 or ________ Expiration Date ________ Results: ________

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: ________ Expiration Date: ________ Results ________

7) **VOA and Radon Headspace:** **No Samples with Headspace:** ☐ **Samples with Headspace (see below):** ☐

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test	Samp ID	Bottle #	None/<6 mm	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): ________

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	[signature]	Chuck Brooks	Eurofins Eaton Analytical	2.15.22	1519
SAMPLES CHECKED AGAINST COC BY:			Eurofins Eaton Analytical		

QA FO-FRM5504 (9.28.21) Ver 9

Page ___ of ___

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

The Comments Report may be blank if there are no comments for this report.

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Hits

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Samples Received on:
02/15/2022 1519

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	202202150532	**Finished (810-14575-1)**				
02/23/2022 04:57	N-Nitroso-dimethylamine (NDMA)		3.7		ng/L	2.0

SUMMARY OF POSITIVE DATA ONLY

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1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

Eurofins Eaton Analytical
Karen Fullmer
110 South Hill Street
South Bend, IN 46617-2702

Samples Received on:
02/15/2022 1519

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
Finished (810-14575-1) (202202150532)							**Sampled on 02/10/2022 1001**		
Variable ID: 810-14575-1									
EEA Agilent 521.1 - Nitrosamines by GCMS									
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	N-Nitrosodibutylamine (NDBA)	ND	ng/L	2.0	1
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	N-Nitrosodiethylamine (NDEA)	ND	ng/L	2.0	1
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	N-Nitroso-dimethylamine (NDMA)	3.7	ng/L	2.0	1
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	N-Nitrosodi-n-propylamine (NDPA)	ND	ng/L	2.0	1
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	N-Nitrosomethylethylamine (NMEA)	ND	ng/L	2.0	1
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	N-Nitrosopyrollidine (NPYR)	ND	ng/L	2.0	1
02/17/22	02/23/22 04:57	1387565	1388779	(EEA Agilent 521.1)	NDMA-D6	75	%		1

Rounding on totals after summation.
(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

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Laboratory QC Summary

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

Eurofins Eaton Analytical

Nitrosamines by GCMS

Prep Batch: 1387565 **Analytical Batch: 1388779** **Analysis Date: 02/23/2022**

202202150532 Finished (810-14575-1) Analyzed by: KDT

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Tel: (626) 386-1100
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1 800 566 LABS (1 800 566 5227)

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

Eurofins Eaton Analytical

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
Nitrosamines by GCMS by EEA Agilent 521.1									
Prep Batch: 1387565	**Analytical Batch: 1388779**					**Analysis Date: 02/23/2022**			
DUP_202202150858	NDMA-D6 (S)		20	83.1	%	83	(70-130)		
LCS1	NDMA-D6 (S)		20	97.3	%	97	(70-130)		
LCS2	NDMA-D6 (S)		20	99.4	%	99	(70-130)		
MBLK	NDMA-D6 (S)			75.2	%	75	(70-130)		
MRL_CHK	NDMA-D6 (S)		20	105	%	105	(70-130)		
MS1_202202150857	NDMA-D6 (S)		20	76.1	%	76	(70-130)		
DUP_202202150858	N-Nitroso dimethylamine (NDMA)			2.87	ng/l		(0-20)		
LCS1	N-Nitroso dimethylamine (NDMA)		40	35.6	ng/L	89	(70-130)		
LCS2	N-Nitroso dimethylamine (NDMA)		40	37.5	ng/L	94	(70-130)	20	5.2
MBLK	N-Nitroso dimethylamine (NDMA)			<0.67	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2	1.95	ng/L	98	(50-150)		
MS1_202202150857	N-Nitroso dimethylamine (NDMA)		2	4.05	ng/L	**203**	(50-150)		
DUP_202202150858	N-Nitrosodibutylamine (NDBA)			5.70	ng/l		(0-20)		
LCS1	N-Nitrosodibutylamine (NDBA)		40	36.8	ng/L	92	(70-130)		
LCS2	N-Nitrosodibutylamine (NDBA)		40	41.2	ng/L	103	(70-130)	20	11
MBLK	N-Nitrosodibutylamine (NDBA)			<0.67	ng/L				
MRL_CHK	N-Nitrosodibutylamine (NDBA)		2	2.20	ng/L	110	(50-150)		
MS1_202202150857	N-Nitrosodibutylamine (NDBA)		2	6.23	ng/L	**312**	(50-150)		
DUP_202202150858	N-Nitrosodiethylamine (NDEA)			9.13	ng/l		(0-20)		
LCS1	N-Nitrosodiethylamine (NDEA)		40	35.6	ng/L	89	(70-130)		
LCS2	N-Nitrosodiethylamine (NDEA)		40	38.5	ng/L	96	(70-130)	20	7.8
MBLK	N-Nitrosodiethylamine (NDEA)			<0.67	ng/L				
MRL_CHK	N-Nitrosodiethylamine (NDEA)		2	2.12	ng/L	106	(50-150)		
MS1_202202150857	N-Nitrosodiethylamine (NDEA)		2	9.08	ng/L	**454**	(50-150)		
DUP_202202150858	N-Nitrosodi-n-propylamin(NDPA)			ND	ng/l		(0-20)		
LCS1	N-Nitrosodi-n-propylamin(NDPA)		40	32.9	ng/L	82	(70-130)		
LCS2	N-Nitrosodi-n-propylamin(NDPA)		40	36.1	ng/L	90	(70-130)	20	9.3
MBLK	N-Nitrosodi-n-propylamin(NDPA)			<0.67	ng/L				
MRL_CHK	N-Nitrosodi-n-propylamin(NDPA)		2	1.94	ng/L	97	(50-150)		
MS1_202202150857	N-Nitrosodi-n-propylamin(NDPA)		2	1.54	ng/L	77	(50-150)		
DUP_202202150858	N-Nitrosomethylethylamin(NMEA)			ND	ng/l		(0-20)		
LCS1	N-Nitrosomethylethylamin(NMEA)		40	35.4	ng/L	88	(70-130)		
LCS2	N-Nitrosomethylethylamin(NMEA)		40	37.7	ng/L	94	(70-130)	20	6.3
MBLK	N-Nitrosomethylethylamin(NMEA)			<0.67	ng/L				
MRL_CHK	N-Nitrosomethylethylamin(NMEA)		2	2.09	ng/L	104	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Report: 987477
Project: SUBCONTRACT
Group: Nitrosamine

Eurofins Eaton Analytical

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_202202150857	N-Nitrosomethylethylamin(NMEA)		2	1.64	ng/L	82	(50-150)		
DUP_202202150858	N-Nitrosopyrollidine (NPYR)			ND	ng/l		(0-20)		
LCS1	N-Nitrosopyrollidine (NPYR)		40	39.3	ng/L	98	(70-130)		
LCS2	N-Nitrosopyrollidine (NPYR)		40	42.1	ng/L	105	(70-130)	20	6.9
MBLK	N-Nitrosopyrollidine (NPYR)			<0.67	ng/L				
MRL_CHK	N-Nitrosopyrollidine (NPYR)		2	2.16	ng/L	108	(50-150)		
MS1_202202150857	N-Nitrosopyrollidine (NPYR)		2	2.78	ng/L	139	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

South Bend, IN
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Reco

810-14575 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Mattheis, Jc	COC No: 810-8593-2437.1
Client Contact: Rebecca Thames	Phone:	E-Mail: joe.mattheis	Page: Page 1 of 2
Company: Charleston Water System	PWSID:		Job #:
Address: 1104 Hanahan Road	Due Date Requested:		
City: Hanahan	TAT Requested (days):		
State, Zip: SC, 29410	Compliance Project: Δ Yes Δ No		
Phone: 843-863-4038(Tel)	PO #: Purchase Order not required		
Email: ThamesRM@CharlestonCPW.com	WO #:		
Project Name: Charleston Water System	Project #: 81001293		
Site:	SSOW#:		

Analysis Requested

Handwritten container notes: L306 – (2) 40 - ASCORBIC; L520 – (1) 40 - AMBER Thio; 522 – (2) ~~CuSO4~~; 556 – (2) I; 200.8 – 500 pH<2; 524.3 – (3) amber; L231 – amber; (amber/ASC)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.2_Pres_PREC - VOC_524.2 Extended	L306 - Local Method	L520 - L520	522_PREC - 1,4-Dioxane	556 - 556-Aldehydes	L402 - PFC-Quant	200.8_SDWA - 200.8	331.0_PREC - Perchlorate	531.2_LL_PREC - 531.2 Ext Carbamates	524.3_SIM_PREC - Low Level TCP/EDB/DBCP	L231 - Algal Toxins	525.2_Ext - 525.2 Extended SVOC list	218.6_Pres_ORGF - Hexavalent Chromium (CrVI)	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	HA	H	R			D	D	N						X	
Finished	2.10.22	1107	G	Drinking Water														2			
Finished	2.10.22	1118	G	Drinking Water								2									
Finished	2.10.22	1121	G	DW									1								
Finished	2.10.22	1126	G	DW					1												-Sampled 2 1126 and 1148
Finished	2.10.22	1128	G	DW						1											
Finished	2.10.22	1130	G	DW				2													
Finished	2.10.22	1138	G	DW			3														
Finished	2.10.22	1140	G	DW													2				
Finished	2.10.22	1142	G	DW							2										
Finished	2.10.22	1144	G	DW						1					2						
Finished	2.10.22	1148	G	DW					1							3					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 2.10.22 / 1430	Company: CWS	Received by: Fedex	Date/Time: 2.10.22 / 1430	Company: Fedex
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: [signature]	Date/Time: 2-11-2022 1015	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: WJT 0.6		

Ver: 06/08/2021

South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

3/7/2022

Client Information	Sampler:	Lab PM: Mattheis, Joe	Carrier Tracking No(s):	COC No: 810-8593-2437.2
Client Contact: Rebecca Thames	Phone:	E-Mail: joe.mattheis@eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Charleston Water System	PWSID:			Job #:
Address: 1104 Hanahan Road	Due Date Requested:			
City: Hanahan	TAT Requested (days):			
State, Zip: SC, 29410	Compliance Project: Δ Yes Δ No			
Phone: 843-863-4038(Tel)	PO #: Purchase Order not required			
Email: ThamesRM@CharlestonCPW.com	WO #			
Project Name: Charleston Water System	Project #: 81001293			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	549.2_PREC - Diquat and Paraquat	515.3_PREC - Chlorinated Acids - Extended by 515.3	SUBCONTRACT - Nitrosamines 9	SUBCONTRACT - EDC/PPCP/Hormone + (2) more	SUBCONTRACT - Dioxin	331.0 Prec - Perchlorate	218.6_Pres ORG Hex Chrom (CrVI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:					Q	R		R	N			
Finished	2.10.22	1102	G	Drinking Wate					1						
1.22-15 AB 45499	2.10.22	1001	G	Drinking Wate					1						
Finished	2.10.22	1111	G	DW							3				
Finished	2.10.22	1120	G	DW			1								
Finished	2.10.22	1123	G	DW				2							
Finished	2.10.22	1133	G	DW						2(P)					
Finished	2.10.22	1136	G	DW						2(N)					
Finished	2.10.22	1156	G	DW								1			
Finished	2.10.22	1159	G	DW									1		Pres. as instructed
522 pH<4 CLA 2-11 2022 KD															

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2.10.22 / 1430	CWS	Fedex	2.10.22 1430	Fedex
2		Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time:	Company	Received by: KDW	Date/Time: 2-11-2022 1015	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: WET 0.6

Ver: 06/08/2021

South Bend, IN
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Reco

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Environment Testing America

Client Information	Sampler:	Lab PM: Mattheis, Jo	COC No: 810-8593-2437.1
Client Contact: Rebecca Thames	Phone:	E-Mail: joe.mattheis	Page: Page 1 of 2
Company: Charleston Water System	PWSID:		Job #:
Address: 1104 Hanahan Road	Due Date Requested:		
City: Hanahan	TAT Requested (days):		
State, Zip: SC, 29410	Compliance Project: Δ Yes Δ No		
Phone: 843-863-4038(Tel)	PO #: Purchase Order not required		
Email: ThamesRM@CharlestonCPW.com	WO #:		
Project Name: Charleston Water System	Project #: 81001293		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.2_Pres_PREC - VOC_524.2 Extended	L306 - Local Method (240 - ascorbic)	L520 - L520 (140 - amber Th.2)	522_PREC - 1,4-Dioxane (2 - cool)	556 - 556-Aldehydes (2 - H2SO4)	L402 - PFC-Quant	200.8_SDWA - 200.8 (500 pH<2)	331.0_PREC - Perchlorate	531.2_LL_PREC - 531.2 Ext Carbamates	524.3_SIM_PREC - Low Level TCP/EDB/DBCP (2 - Amber unpres)	L231 - Algal Toxins (amber unpres)	525.2_Ext - 525.2 Extended SVOC list	218.6_Pres_ORGF - Hexavalent Chromium (CrVI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				HA	H	R			D	D	N							
Finished	2.10.22	1107	G	Drinking Wate														2			
Finished	2.10.22	1118	G	Drinking Wate								2									
Finished	2.10.22	1121	G	DW									1								
Finished	2.10.22	1126	G	DW					1												-Sampled 2 1126 and 1148
Finished	2.10.22	1128	G	DW						1											
Finished	2.10.22	1130	G	DW				2													
Finished	2.10.22	1138	G	DW			3														
Finished	2.10.22	1140	G	DW							1						2				
Finished	2.10.22	1142	G	DW							2										
Finished	2.10.22	1144	G	DW						1					2						
Finished	2.10.22	1148	G	DW					1							3					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Logan Cowden	2.10.22 1430	CWS	Fedex	2.10.22/1430	Fedex
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by: [signature]	Date/Time: 2-11-2022	Company 1015

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: WT 0.6

Ver: 06/08/2021

South Bend, IN
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Mattheis, Joe	Carrier Tracking No(s):	COC No: 810-8593-2437.2
Client Contact: Rebecca Thames	Phone:	E-Mail: joe.mattheis@eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Charleston Water System	PWSID:			Job #:
Address: 1104 Hanahan Road	Due Date Requested:			
City: Hanahan	TAT Requested (days):			
State, Zip: SC, 29410	Compliance Project: Δ Yes Δ No			
Phone: 843-863-4038(Tel)	PO #: Purchase Order not required			
Email: ThamesRM@CharlestonCPW.com	WO #:			
Project Name: Charleston Water System	Project #: 81001293			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	549.2_PREC - Diquat and Paraquat	515.3_PREC - Chlorinated Acids - Extended by 515.3	SUBCONTRACT - Nitrosamines 9	SUBCONTRACT - EDC/PPCP/Hormone	SUBCONTRACT - Dioxin	331.0 Perc. - Perchlorate	218.6_Pres ORGF Hex-Chrom CrVI	Total Number of containers	Special Instructions/Note:
			Preservation Code:					Q	R		R	N			
Finished	2.10.22	1102	G	Drinking Wate					1						
1.22-15 AB 45499	2.10.22	1001	G	Drinking Wate					1						
Finished	2.10.22	1111	G	DW							3				
Finished	2.10.22	1120	G	DW			1								
Finished	2.10.22	1123	G	DW				2							
Finished	2.10.22	1133	G	DW						2(P)					
Finished	2.10.22	1136	G	DW						2(N)					
Finished	2.10.22	1156	G	DW								1			
Finished	2.10.22	1159	G	DW									1		Pres. as instructed
522 pH<4 CLA 2-11 2022 KD															

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2.10.22 / 1430	CWS	[signature] Fedex	2.10.22 1430	Fedex
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by: KDW	Date/Time: 2-11-2022 1015	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: WD 0.6

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Charleston Water System

Job Number: 810-14575-1

Login Number: 14575
List Number: 1
Creator: DePriest, Kellie

List Source: Eurofins Eaton South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	