

Chemical Analysis Report

SO-DIST-2023-06-07-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Caloosa Creeks**
Request ID: **RQ-2023-06-05-06**
Customer: **SO-DIST**
Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Thomas Baker

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 26-JUN-2023 14:35



NON-CONFORMANCE REPORT INCLUDED

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: ORANGE RIVER AT BOAT RAMP

Collection Date/Time: 06/05/2023 09:55

Field ID: G3SD0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415728	DEP SOP: NU-094-1	Color (true)	53		PCU	P430871	
	EPA 180.1 Rev. 2.0	Turbidity	4.8	Q	NTU	P431024	
	EPA 300.0 Rev. 2.1	Chloride	130		mg Cl/L	P431227	
		Sulfate	30		mg SO4/L	P431229	
	SM 2320 B-2011	Total Alkalinity	131		mg CaCO3/L	P431145	
	SM 2540 C-2015	TDS	442		mg/L	P431306	
	SM 2540 D-2015	TSS	5	I	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.19		mg F/L	P431429	
2415733	SM 5310 B-2011 dissolved	Organic Carbon	14		mg C/L	P430957	
2415738	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P431147	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.071		mg N/L	P431251	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P431053	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P431164	
2415743	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.061		mg P/L	P430865	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ROBERTS CANAL AT SR 80

Collection Date/Time: 06/05/2023 10:35

Field ID: G3SD0146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415729	DEP SOP: NU-094-1	Color (true)	40	AJ	PCU	P430872	
	EPA 180.1 Rev. 2.0	Turbidity	16	Q	NTU	P431024	
	EPA 300.0 Rev. 2.1	Chloride	33		mg Cl/L	P431227	
		Sulfate	220		mg SO4/L	P431534	
	SM 2320 B-2011	Total Alkalinity	177		mg CaCO3/L	P431145	
	SM 2540 C-2015	TDS	572		mg/L	P431306	
	SM 2540 D-2015	TSS	26		mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.32		mg F/L	P431429	
2415734	SM 5310 B-2011 dissolved	Organic Carbon	10		mg C/L	P430957	
2415739	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P431147	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P431251	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P431053	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P431164	
2415744	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P430865	

Ref. Method and Comment:

DEP SOP: NU-094-1: The result may be biased high because of matrix interference.

EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: NINE MILE CANAL AT SR 80

Collection Date/Time: 06/05/2023 11:15

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415730	DEP SOP: NU-094-1	Color (true)	81		PCU	P430872	
	EPA 180.1 Rev. 2.0	Turbidity	9.8	Q	NTU	P431024	
	EPA 300.0 Rev. 2.1	Chloride	35		mg Cl/L	P431227	
		Sulfate	30		mg SO4/L	P431229	
	SM 2320 B-2011	Total Alkalinity	177		mg CaCO3/L	P431145	
	SM 2540 C-2015	TDS	323		mg/L	P431306	
	SM 2540 D-2015	TSS	22		mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.33		mg F/L	P431629	
2415735	SM 5310 B-2011 dissolved	Organic Carbon	15		mg C/L	P430957	
2415740	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P431147	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P431252	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P431053	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P431164	
2415745	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.099		mg P/L	P430865	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: BEE BRANCH AT LOBLOLLY BAY RD

Collection Date/Time: 06/05/2023 12:10

Field ID: G3SD0085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415731	DEP SOP: NU-094-1	Color (true)	380		PCU	P430872	
	EPA 180.1 Rev. 2.0	Turbidity	3.2	Q	NTU	P431024	
	EPA 300.0 Rev. 2.1	Chloride	24	A	mg Cl/L	P431227	
		Sulfate	22	A	mg SO4/L	P431229	
	SM 2320 B-2011	Total Alkalinity	5.1		mg CaCO3/L	P431145	
	SM 2540 C-2015	TDS	165		mg/L	P431306	
	SM 2540 D-2015	TSS	2	U	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.043	I	mg F/L	P431629	
2415736	SM 5310 B-2011 dissolved	Organic Carbon	44		mg C/L	P430957	
2415741	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P431147	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P431252	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P431053	
	SM 5310 B-2011	Organic Carbon	43		mg C/L	P431164	
2415746	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.049		mg P/L	P430865	
2415760	EPA 8321B	2,4-D	0.0020	U	ug/L	P430834	
		Acesulfame K	0.10	U	ug/L	P430789	
		2,4,5-T	0.0040	U	ug/L	P430834	
		AMPA	0.10	U	ug/L	P430789	
		Acetaminophen	0.0080	U	ug/L	P430834	
		Acetamiprid	0.0020	U	ug/L	P430834	
		Endothall	0.25	U	ug/L	P430789	
		Glufosinate	0.10	U	ug/L	P430789	
		Glyphosate	0.10	U	ug/L	P430789	
		Afidopyropen	0.0020	U	ug/L	P430834	
		Bentazon	8.0E-04	U	ug/L	P430834	
		Sucralose	0.010	U	ug/L	P430789	
		Benzovindiflupyr	0.0020	U	ug/L	P430834	
		Carbamazepine	8.0E-04	U	ug/L	P430834	
		Clothianidin	0.0020	U	ug/L	P430834	
		Dinotefuran	0.0020	U	ug/L	P430834	
		Diuron	0.0020	U	ug/L	P430834	
		Fenuron	0.032	U	ug/L	P430834	
		Fluridone	8.0E-04	U	ug/L	P430834	
		Imazapyr	0.0040	U	ug/L	P430834	
		Hydrocodone	0.0020	U	ug/L	P430834	
		Ibuprofen	0.080	U	ug/L	P430834	
		Imidacloprid	0.0065	I	ug/L	P430834	
		Linuron	0.0040	U	ug/L	P430834	
		Mandestrobin	0.0020	U	ug/L	P430834	
		MCPP	0.0020	U	ug/L	P430834	
		Naproxen	0.0080	UJ	ug/L	P430834	CCV
		Primidone	0.0040	U	ug/L	P430834	

Field ID: G3SD0085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415760	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P430834	
		Silvex	0.0040	U	ug/L	P430834	
		Thiamethoxam	0.0020	U	ug/L	P430834	
		Tolfenpyrad	0.0020	U	ug/L	P430834	
		Triclopyr	0.0040	U	ug/L	P430834	

Ref. Method and Comment:
EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 06/05/2023 12:15

Field ID: FB_06052023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415748	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P430876	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	UQ	NTU	P431024	
	EPA 300.0 Rev. 2.1	Sulfate	0.20	U	mg SO4/L	P431229	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P431145	
	SM 2540 C-2015	TDS	15	U	mg/L	P431306	
	SM 2540 D-2015	TSS	2	U	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431629	
2415749	SM 5310 B-2011 dissolved	Organic Carbon	0.50	U	mg C/L	P431164	
2415750	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P431147	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P431118	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431252	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P431053	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P431164	
2415751	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P430865	
2415762	EPA 8321B	2,4-D	0.0020	U	ug/L	P430834	
		Acesulfame K	0.10	U	ug/L	P430789	
		2,4,5-T	0.0040	U	ug/L	P430834	
		AMPA	0.10	U	ug/L	P430789	
		Acetaminophen	0.0080	U	ug/L	P430834	
		Acetamiprid	0.0020	U	ug/L	P430834	
		Endothall	0.25	U	ug/L	P430789	
		Glufosinate	0.10	U	ug/L	P430789	
		Glyphosate	0.10	U	ug/L	P430789	
		Afidopyrophen	0.0020	U	ug/L	P430834	
		Bentazon	8.0E-04	U	ug/L	P430834	
		Sucralose	0.010	U	ug/L	P430789	
		Benzovindiflupyr	0.0020	U	ug/L	P430834	
		Carbamazepine	8.0E-04	U	ug/L	P430834	
		Clothianidin	0.0020	U	ug/L	P430834	
		Dinotefuran	0.0020	U	ug/L	P430834	
		Diuron	0.0020	U	ug/L	P430834	
		Fenuron	0.032	U	ug/L	P430834	
		Fluridone	8.0E-04	U	ug/L	P430834	
		Imazapyr	0.0040	U	ug/L	P430834	
		Hydrocodone	0.0020	U	ug/L	P430834	
		Ibuprofen	0.080	U	ug/L	P430834	
		Imidacloprid	0.0020	U	ug/L	P430834	
		Linuron	0.0040	U	ug/L	P430834	
		Mandestrobin	0.0020	U	ug/L	P430834	
		MCPD	0.0020	U	ug/L	P430834	
		Naproxen	0.0080	U	ug/L	P430834	
		Primidone	0.0040	U	ug/L	P430834	
		Pyraclostrobin	0.0020	U	ug/L	P430834	

Field ID: FB_06052023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415762	EPA 8321B	Silvex	0.0040	U	ug/L	P430834	
		Thiamethoxam	0.0020	U	ug/L	P430834	
		Tolfenpyrad	0.0020	U	ug/L	P430834	
		Triclopyr	0.0040	U	ug/L	P430834	

Ref. Method and Comment:
EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: TELEGRAPH CREEK SONDE AT USGS SONDE STATION **Collection Date/Time: 06/05/2023 12:50**

Field ID: G3SD0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2415732	DEP SOP: NU-094-1	Color (true)	46		PCU	P430872	
	EPA 180.1 Rev. 2.0	Turbidity	4.5	Q	NTU	P431024	
	EPA 300.0 Rev. 2.1	Chloride	98		mg Cl/L	P431227	
		Sulfate	17		mg SO4/L	P431229	
	SM 2320 B-2011	Total Alkalinity	213		mg CaCO3/L	P431145	
	SM 2540 C-2015	TDS	450	A	mg/L	P431307	
	SM 2540 D-2015	TSS	6	IA	mg/L	P431090	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P431629	
2415737	SM 5310 B-2011 dissolved	Organic Carbon	13		mg C/L	P430957	
2415742	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P431147	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431252	
	EPA 365.1 Rev. 2.0	Total-P	0.099		mg P/L	P431053	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P431164	
2415747	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.048		mg P/L	P430865	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Non-Conformance Report

NCR ID: 9912

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
SO-DIST-2023-06-07-01	TLH-2023-06-07-119	2415728	
SO-DIST-2023-06-07-01	TLH-2023-06-07-119	2415729	
SO-DIST-2023-06-07-01	TLH-2023-06-07-119	2415730	
SO-DIST-2023-06-07-01	TLH-2023-06-07-119	2415731	
SO-DIST-2023-06-07-01	TLH-2023-06-07-119	2415732	
SO-DIST-2023-06-07-01	TLH-2023-06-07-119	2415748	

NCR Type: SHIPPING/RECEIVING

NCR Category: Receiving

Observation: Samples incorrectly logged in without the TURBIDITY test.

Resolution: Sample data will be qualified as appropriate.

Authorized by/Date: Kyle Klug 6/9/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P430871

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P430872

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P430876

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431024

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431227

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431229

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431147

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431118

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431251

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431252

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431053

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430865

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8321B
Batch ID: P430789

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P430834

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P430834

Component	Result	Code	Units
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P431145

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2015

Batch ID: P431306

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015

Batch ID: P431307

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P431089

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P431090

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P431429

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P431629

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P431164

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P430957

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P431164

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P430871

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P430872

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P430876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431024

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431229

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P431118

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P431251

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	94.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P431252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	94.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431053

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P430865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	95.6		P	90 - 110

Reference Method: EPA 8321B

Batch ID: P430789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	79.3		P	40 - 150
Endothall	90.9		P	40 - 150
Glufosinate	84.0		P	40 - 150
Glyphosate	71.4		P	40 - 150
Sucralose	82.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
2,4,5-T	96.0		P	40 - 150
Acetaminophen	89.9		P	30 - 150
Acetamiprid	79.5		P	40 - 150
Afidopyropen	73.4		P	30 - 150
Bentazon	99.3		P	30 - 150
Benzovindiflupyr	80.3		P	40 - 150
Carbamazepine	83.1		P	40 - 150
Clothianidin	88.3		P	40 - 150
Dinotefuran	90.4		P	40 - 150
Diuron	83.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	85.4		P	40 - 150
Fluridone	90.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	119		P	40 - 150
Imazapyr	95.6		P	40 - 150
Imidacloprid	85.0		P	40 - 150
Linuron	82.0		P	40 - 150
Mandestrobin	84.5		P	40 - 150
MCPP	96.0		P	40 - 150
Naproxen	67.0		P	40 - 150
Primidone	81.5		P	40 - 150
Pyraclostrobin	77.8		P	40 - 150
Silvex	94.4		P	40 - 150
Thiamethoxam	84.7		P	40 - 150
Tolfenpyrad	58.4		P	30 - 150
Triclopyr	77.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P431145

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.5		P	90 - 110

Reference Method: SM 2540 C-2015
Batch ID: P431307

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	101		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.9		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P431090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P431629

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.4		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P430957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P431164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415731	Chloride	98.1		P	90 - 110
2415980	Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415731	Sulfate	94.3		P	90 - 110
2415980	Sulfate	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416405	Sulfate	98.3		P	90 - 110
2416793	Sulfate	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415723	Ammonia-N	97.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Kjeldahl Nitrogen	94.8	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431118

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415770	Kjeldahl Nitrogen	108	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415594	NO2NO3-N	94.3	94.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415742	NO2NO3-N	94.0	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415723	Total-P	102	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415743	O-Phosphate-P	96.1	96.4	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P430789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413933	Acesulfame K	102	101	P/P	40 - 150
2413933	AMPA	101	96.7	P/P	40 - 150
2413933	Endothall	86.9	82.6	P/P	40 - 150
2413933	Glufosinate	80.1	78.3	P/P	40 - 150
2413933	Glyphosate	60.2	59.5	P/P	40 - 150
2413933	Sucralose	90.3	90.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414406	2,4-D	104	112	P/P	40 - 150
2414406	2,4,5-T	133	103	P/P	40 - 150
2414406	Acetaminophen	90.6	98.4	P/P	30 - 150
2414406	Acetamiprid	76.5	77.5	P/P	40 - 150
2414406	Afidopyrophen	69.3	62.1	P/P	30 - 150
2414406	Bentazon	83.4	87.1	P/P	30 - 150
2414406	Benzovindiflupyr	80.9	91.4	P/P	40 - 150
2414406	Carbamazepine	86.0	89.9	P/P	40 - 150
2414406	Clothianidin	101	108	P/P	40 - 150
2414406	Dinotefuran	95.0	99.8	P/P	40 - 150
2414406	Diuron	78.5	89.1	P/P	40 - 150
2414406	Fenuron	79.2	85.8	P/P	40 - 150
2414406	Fluridone	89.9	92.6	P/P	40 - 150
2414406	Hydrocodone	86.9	93.8	P/P	40 - 150
2414406	Ibuprofen	112	128	P/P	40 - 150
2414406	Imazapyr	94.4	98.4	P/P	40 - 150
2414406	Imidacloprid	103	114	P/P	40 - 150
2414406	Linuron	81.2	82.7	P/P	40 - 150
2414406	Mandestrobin	88.6	87.4	P/P	40 - 150
2414406	MCPP	96.8	103	P/P	40 - 150
2414406	Naproxen	51.9	54.2	P/P	40 - 150
2414406	Primidone	80.3	84.0	P/P	40 - 150
2414406	Pyraclostrobin	81.1	84.2	P/P	40 - 150
2414406	Silvex	90.2	90.9	P/P	40 - 150
2414406	Thiamethoxam	100	103	P/P	40 - 150
2414406	Tolfenpyrad	52.7	59.7	P/P	30 - 150
2414406	Triclopyr	83.5	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414566	Fluoride	103	103	P/P	94 - 106

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P431629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415722	Fluoride	99.1	99.7	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415594	Organic Carbon	95.4	96.5	P/P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P430957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414396	Organic Carbon	95.6	97.2	P/P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P431164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415594	Organic Carbon	95.4	96.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414488	Color (true)	2.12	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P430872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415729	Color (true)	0.0989	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P430876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414890	Color (true)	7.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415707	Turbidity	11.6	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415731	Chloride	1.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415731	Sulfate	1.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416405	Sulfate	0.724	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415723	Ammonia-N	2.42	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Kjeldahl Nitrogen	7.57	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415770	Kjeldahl Nitrogen	1.65	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415594	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415742	NO2NO3-N	0.531	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415723	Total-P	0.623	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415743	O-Phosphate-P	0.191	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P430789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413933	Acesulfame K	0.197	Spike	P	0 - 30
2413933	AMPA	4.57	Spike	P	0 - 30
2413933	Endothall	5.10	Spike	P	0 - 30
2413933	Glufosinate	2.28	Spike	P	0 - 30
2413933	Glyphosate	1.13	Spike	P	0 - 30
2413933	Sucralose	0.255	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P430834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414406	2,4-D	7.77	Spike	P	0 - 30
2414406	2,4,5-T	25.3	Spike	P	0 - 30
2414406	Acetaminophen	8.21	Spike	P	0 - 30
2414406	Acetamiprid	1.31	Spike	P	0 - 30
2414406	Afidopyropen	11.0	Spike	P	0 - 30
2414406	Bentazon	4.37	Spike	P	0 - 30
2414406	Benzovindiflupyr	12.2	Spike	P	0 - 30
2414406	Carbamazepine	4.38	Spike	P	0 - 30
2414406	Clothianidin	6.79	Spike	P	0 - 30
2414406	Dinotefuran	4.99	Spike	P	0 - 30
2414406	Diuron	12.6	Spike	P	0 - 30
2414406	Fenuron	8.00	Spike	P	0 - 30
2414406	Fluridone	3.00	Spike	P	0 - 30
2414406	Hydrocodone	7.63	Spike	P	0 - 30
2414406	Ibuprofen	13.4	Spike	P	0 - 30
2414406	Imazapyr	4.17	Spike	P	0 - 30
2414406	Imidacloprid	10.2	Spike	P	0 - 30
2414406	Linuron	1.83	Spike	P	0 - 30
2414406	Mandestrobin	1.29	Spike	P	0 - 30
2414406	MCPP	6.49	Spike	P	0 - 30
2414406	Naproxen	4.48	Spike	P	0 - 30
2414406	Primidone	4.47	Spike	P	0 - 30
2414406	Pyraclostrobin	3.82	Spike	P	0 - 30
2414406	Silvex	0.689	Spike	P	0 - 30
2414406	Thiamethoxam	3.16	Spike	P	0 - 30
2414406	Tolfenpyrad	12.5	Spike	P	0 - 30
2414406	Triclopyr	21.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P431145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416069	Total Alkalinity	2.39	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P431306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	TDS	5.76	Sample	P	0 - 10

Reference Method: SM 2540 C-2015

Batch ID: P431307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415732	TDS	6.22	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	Fluoride	0.503	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P431629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415722	Fluoride	0.500	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P431164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415594	Organic Carbon	0.789	Spike	P	0 - 20

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P430957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414396	Organic Carbon	1.39	Spike	P	0 - 20

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P431164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415594	Organic Carbon	0.789	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2415760
Field Sample ID: G3SD0085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	66.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	125	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.4	P	30 - 160
EPA 8321B	Diuron-d6	47.7	P	30 - 160
EPA 8321B	Endothall-d6	99.5	P	30 - 160
EPA 8321B	Endothall-d6	94.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.1	P	30 - 160
EPA 8321B	Primidone-d5	81.4	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160
EPA 8321B	Sucralose-d6	88.0	P	30 - 160

Lab Sample ID: 2415762
Field Sample ID: FB_06052023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.3	P	30 - 160
EPA 8321B	Diuron-d6	83.1	P	30 - 160
EPA 8321B	Endothall-d6	90.2	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	96.2	P	30 - 160
EPA 8321B	Primidone-d5	87.2	P	30 - 160
EPA 8321B	Sucralose-d6	88.0	P	30 - 160
EPA 8321B	Sucralose-d6	82.5	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A119613

Included Lab Sample IDs: 2415743, 2415744, 2415745, 2415746, 2415747, 2415751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	98.9	P/P	90 - 110
O-Phosphate-P	98.9	98.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119615

Included Lab Sample IDs: 2415728, 2415729, 2415730, 2415731, 2415732, 2415748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.5	P/P	90 - 110
Color (true)	97.0	99.7	P/P	90 - 110
Color (true)	98.1	97.0	P/P	90 - 110
Color (true)	99.5	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119631

Included Lab Sample IDs: 2415760, 2415762

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	107	103	P/P	60 - 160
Sucralose	77.2	64.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119635

Included Lab Sample IDs: 2415760, 2415762

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.8	81.2	P/P	60 - 160
Endothall	90.1	91.1	P/P	60 - 160
Glufosinate	78.8	84.3	P/P	60 - 160
Glyphosate	92.5	88.3	P/P	60 - 160

Reference Method: SM 5310 B-2011 dissolved

Run ID: A119651

Included Lab Sample IDs: 2415733, 2415734, 2415735, 2415736, 2415737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.2	P/P	90 - 110
Organic Carbon	99.2	98.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119660

Included Lab Sample IDs: 2415760, 2415762

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.2	96.6	P/P	50 - 150
2,4-D	96.6	93.4	P/P	50 - 150
2,4,5-T	91.0	96.9	P/P	50 - 150
2,4,5-T	96.9	101	P/P	50 - 150
Acetaminophen	112	114	P/P	60 - 160
Acetaminophen	114	118	P/P	60 - 160
Acetamiprid	106	109	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A119660

Included Lab Sample IDs: 2415760, 2415762

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetamiprid	109	108	P/P	50 - 150
Afidopyropen	109	88.5	P/P	50 - 150
Afidopyropen	88.5	123	P/P	50 - 150
Bentazon	112	120	P/P	50 - 160
Bentazon	115	112	P/P	50 - 160
Benzovindiflupyr	102	99.6	P/P	50 - 150
Benzovindiflupyr	99.6	108	P/P	50 - 150
Carbamazepine	105	112	P/P	60 - 150
Carbamazepine	106	105	P/P	60 - 150
Clothianidin	103	113	P/P	60 - 150
Clothianidin	113	116	P/P	60 - 150
Dinotefuran	110	114	P/P	50 - 150
Dinotefuran	114	108	P/P	50 - 150
Diuron	108	96.2	P/P	60 - 160
Diuron	96.2	101	P/P	60 - 160
Fenuron	105	106	P/P	60 - 150
Fenuron	106	107	P/P	60 - 150
Fluridone	109	115	P/P	60 - 160
Fluridone	110	109	P/P	60 - 160
Hydrocodone	104	109	P/P	60 - 150
Hydrocodone	109	107	P/P	60 - 150
Ibuprofen	120	138	P/P	50 - 160
Ibuprofen	75.7	120	P/P	50 - 160
Imazapyr	106	109	P/P	50 - 150
Imazapyr	98.3	106	P/P	50 - 150
Imidacloprid	97.3	99.4	P/P	60 - 150
Imidacloprid	99.4	101	P/P	60 - 150
Linuron	101	90.0	P/P	60 - 150
Linuron	90.0	99.6	P/P	60 - 150
Mandestrobin	102	103	P/P	50 - 150
Mandestrobin	103	105	P/P	50 - 150
MCPP	89.8	95.8	P/P	50 - 150
MCPP	95.8	99.3	P/P	50 - 150
Naproxen	138	93.0	P/P	50 - 160
Naproxen	93.0	198*	P/F	50 - 160
Primidone	94.9	99.3	P/P	60 - 150
Primidone	99.3	97.6	P/P	60 - 150
Pyraclostrobin	101	109	P/P	60 - 150
Pyraclostrobin	109	105	P/P	60 - 150
Silvex	107	117	P/P	50 - 150
Silvex	117	104	P/P	50 - 150
Thiamethoxam	101	104	P/P	50 - 150
Thiamethoxam	104	107	P/P	50 - 150
Tolfenpyrad	106	96.2	P/P	60 - 150
Tolfenpyrad	95.6	106	P/P	60 - 150
Triclopyr	74.5	78.6	P/P	50 - 150
Triclopyr	78.6	83.0	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119663

Included Lab Sample IDs: 2415738, 2415739, 2415740, 2415741, 2415742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	104	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119672

Included Lab Sample IDs: 2415728, 2415729, 2415730, 2415731, 2415732, 2415748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.0	96.5	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A119730

Included Lab Sample IDs: 2415728, 2415729, 2415730, 2415731, 2415732, 2415748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.9	94.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119733

Included Lab Sample IDs: 2415738, 2415739, 2415740, 2415741, 2415742, 2415750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.6	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119736

Included Lab Sample IDs: 2415738, 2415739, 2415740, 2415741, 2415742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	103	P/P	90 - 110
Total-P	102	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119749

Included Lab Sample IDs: 2415738, 2415739, 2415740, 2415741, 2415742, 2415750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	98.4	P/P	90 - 110
Organic Carbon	98.8	98.2	P/P	90 - 110

Reference Method: SM 5310 B-2011 dissolved

Run ID: A119749

Included Lab Sample IDs: 2415749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119761

Included Lab Sample IDs: 2415750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119761

Included Lab Sample IDs: 2415750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119778

Included Lab Sample IDs: 2415728, 2415729, 2415730, 2415731, 2415732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.6	98.5	P/P	90 - 110
Chloride	99.1	96.6	P/P	90 - 110
Sulfate	97.2	98.4	P/P	90 - 110
Sulfate	99.1	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119789

Included Lab Sample IDs: 2415738, 2415739, 2415740, 2415741, 2415742, 2415750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	94.0	93.5	P/P	90 - 110
NO2NO3-N	95.5	94.0	P/P	90 - 110
NO2NO3-N	96.5	95.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119809

Included Lab Sample IDs: 2415750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	104	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A119876

Included Lab Sample IDs: 2415728, 2415729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119927

Included Lab Sample IDs: 2415729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	99.5	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A119960

Included Lab Sample IDs: 2415730, 2415731, 2415732, 2415748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	101	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	98.2			2.12	
	Color (true)	100			0.0989	
	Color (true)	102			7.05	
EPA 180.1 Rev. 2.0	Turbidity	96.0			11.6	
EPA 300.0 Rev. 2.1	Chloride	98.9	98.1	97.2	1.35	
	Sulfate	98.7	94.3	97.1	1.30	
	Sulfate	99.0	98.3	96.6	0.724	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	97.8	100		2.42
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.8	94.8	108		7.57
	Kjeldahl Nitrogen	109	108	106		1.65
EPA 353.2 Rev. 2.0	NO2NO3-N	94.5	94.3	94.3		0.0
	NO2NO3-N	94.5	94.0	94.5		0.531
EPA 365.1 Rev. 2.0	Total-P	101	102	102		0.623
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	95.6	96.1	96.4		0.191
EPA 8321B	2,4-D	109	104	112		7.77
	2,4,5-T	96.0	133	103		25.3
	Acesulfame K	106	102	101		0.197
	Acetaminophen	89.9	90.6	98.4		8.21
	Acetamiprid	79.5	76.5	77.5		1.31
	Afidopyropen	73.4	69.3	62.1		11.0
	AMPA	79.3	101	96.7		4.57
	Bentazon	99.3	83.4	87.1		4.37
	Benzovindiflupyr	80.3	80.9	91.4		12.2
	Carbamazepine	83.1	86.0	89.9		4.38
	Clothianidin	88.3	101	108		6.79
	Dinotefuran	90.4	95.0	99.8		4.99
	Diuron	83.5	78.5	89.1		12.6
	Endothall	90.9	86.9	82.6		5.10
	Fenuron	85.4	79.2	85.8		8.00
	Fluridone	90.6	89.9	92.6		3.00
	Glufosinate	84.0	80.1	78.3		2.28
	Glyphosate	71.4	60.2	59.5		1.13
	Hydrocodone	86.6	86.9	93.8		7.63
	Ibuprofen	119	112	128		13.4
	Imazapyr	95.6	94.4	98.4		4.17
	Imidacloprid	85.0	103	114		10.2
	Linuron	82.0	81.2	82.7		1.83
	Mandestrobin	84.5	88.6	87.4		1.29
	MCPP	96.0	96.8	103		6.49
	Naproxen	67.0	51.9	54.2		4.48
	Primidone	81.5	80.3	84.0		4.47
	Pyraclostrobin	77.8	81.1	84.2		3.82
	Silvex	94.4	90.2	90.9		0.689
	Sucralose	82.6	90.3	90.6		0.255
	Thiamethoxam	84.7	100	103		3.16
	Tolfenpyrad	58.4	52.7	59.7		12.5
	Triclopyr	77.8	83.5	103		21.1
SM 2320 B-2011	Total Alkalinity	97.8			2.39	
SM 2540 C-2015	TDS	94.5			5.76	
	TDS	101			6.22	
SM 2540 D-2015	TSS	95.9				
	TSS	93.3				
SM 4500-F- C-2011	Fluoride	98.3	103	103		0.503
	Fluoride	98.4	99.1	99.7		0.500

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 5310 B-2011	Organic Carbon	96.4	95.4	96.5		0.789
SM 5310 B-2011 dissolved	Organic Carbon	96.4	95.6	97.2		1.39
	Organic Carbon	96.4	95.4	96.5		0.789

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2415728, 2415729, 2415730, 2415731, 2415732
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2415738, 2415739, 2415740, 2415741, 2415742, 2415750
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2415738, 2415739, 2415740, 2415741, 2415742, 2415750
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2415738, 2415739, 2415740, 2415741, 2415742, 2415750
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2415738, 2415739, 2415740, 2415741, 2415742, 2415750
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2415743, 2415744, 2415745, 2415746, 2415747, 2415751
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2415760, 2415762
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2415738, 2415739, 2415740, 2415741, 2415742, 2415750
SM 5310 B-2011 dissolved	Dissolved Nonpurgeable Organic Carbon in filtered, aqueous matrices	2415733, 2415734, 2415735, 2415736, 2415737, 2415749

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/06/2023			06/06/2023 14:27	Alexis Price	2415728
	06/06/2023			06/06/2023 14:32	Alexis Price	2415729
	06/06/2023			06/06/2023 14:33	Alexis Price	2415730
	06/06/2023			06/06/2023 14:34	Alexis Price	2415732
	06/06/2023			06/06/2023 15:16	Alexis Price	2415748
	06/06/2023			06/06/2023 15:26	Alexis Price	2415731
EPA 180.1 Rev. 2.0	06/06/2023			06/08/2023 14:24	Anna M. Plaviak	2415748
	06/06/2023			06/08/2023 14:25	Anna M. Plaviak	2415728
	06/06/2023			06/08/2023 14:27	Anna M. Plaviak	2415729
	06/06/2023			06/08/2023 14:28	Anna M. Plaviak	2415730
	06/06/2023			06/08/2023 14:29	Anna M. Plaviak	2415731
	06/06/2023			06/08/2023 14:30	Anna M. Plaviak	2415732
EPA 300.0 Rev. 2.1	06/06/2023			06/13/2023 11:00	James L Waggeberby	2415731
	06/06/2023			06/13/2023 12:30	James L Waggeberby	2415748
	06/06/2023			06/13/2023 13:16	James L Waggeberby	2415728
	06/06/2023			06/13/2023 13:31	James L Waggeberby	2415729
	06/06/2023			06/13/2023 13:46	James L Waggeberby	2415730
	06/06/2023			06/13/2023 14:31	James L Waggeberby	2415732
EPA 350.1 Rev. 2.0	06/06/2023			06/19/2023 20:10	James L Waggeberby	2415729
	06/06/2023			06/12/2023 12:00	Khloe J Berg	2415738
	06/06/2023			06/12/2023 12:02	Khloe J Berg	2415739
	06/06/2023			06/12/2023 12:03	Khloe J Berg	2415740
	06/06/2023			06/12/2023 12:04	Khloe J Berg	2415741
	06/06/2023			06/12/2023 12:06	Khloe J Berg	2415742
EPA 351.2 Rev. 2.0	06/06/2023			06/12/2023 12:07	Khloe J Berg	2415750
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:46	Ping Hua	2415738
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:47	Ping Hua	2415739
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:49	Ping Hua	2415740
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:51	Ping Hua	2415741
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:52	Ping Hua	2415742
EPA 353.2 Rev. 2.0	06/06/2023	06/12/2023 12:30	Simonne.V. Calhoun	06/14/2023 16:08	Samantha L Bates	2415750
	06/06/2023			06/14/2023 10:16	Beverly Y. Sanders	2415739
	06/06/2023			06/14/2023 10:23	Beverly Y. Sanders	2415742
	06/06/2023			06/14/2023 10:29	Beverly Y. Sanders	2415740
	06/06/2023			06/14/2023 10:30	Beverly Y. Sanders	2415741
	06/06/2023			06/14/2023 10:32	Beverly Y. Sanders	2415750
EPA 365.1 Rev. 2.0	06/06/2023			06/14/2023 10:49	Beverly Y. Sanders	2415738
	06/06/2023	06/09/2023 16:53	Adam P Silver	06/12/2023 14:31	James L Waggeberby	2415738
	06/06/2023	06/09/2023 16:53	Adam P Silver	06/12/2023 14:34	James L Waggeberby	2415739
	06/06/2023	06/09/2023 16:53	Adam P Silver	06/12/2023 14:35	James L Waggeberby	2415740

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	06/06/2023	06/09/2023 16:53	Adam P Silver	06/12/2023 14:36	James L Waggeberby	2415741
	06/06/2023	06/09/2023 16:53	Adam P Silver	06/12/2023 14:37	James L Waggeberby	2415742
	06/06/2023	06/09/2023 16:53	Adam P Silver	06/13/2023 11:50	James L Waggeberby	2415750
EPA 365.1 Rev. 2.0 dissolved	06/06/2023			06/06/2023 15:13	Adam P Silver	2415743
	06/06/2023			06/06/2023 15:16	Adam P Silver	2415744
	06/06/2023			06/06/2023 15:17	Adam P Silver	2415745
	06/06/2023			06/06/2023 15:18	Adam P Silver	2415746
	06/06/2023			06/06/2023 15:19	Adam P Silver	2415747
	06/06/2023			06/06/2023 15:24	Adam P Silver	2415751
	06/06/2023			06/06/2023 15:24	Adam P Silver	2415751
EPA 8321B	06/06/2023	06/06/2023 14:00	Touraj Touran	06/06/2023 20:44	Touraj Touran	2415762
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/06/2023 20:58	Touraj Touran	2415760
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/07/2023 07:18	Touraj Touran	2415762
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/07/2023 07:31	Touraj Touran	2415760
	06/06/2023	06/07/2023 11:00	Hoor Shaik	06/07/2023 21:28	Juyoung Kim	2415762
SM 2320 B-2011	06/06/2023	06/07/2023 11:00	Hoor Shaik	06/07/2023 22:06	Juyoung Kim	2415760
	06/06/2023			06/11/2023 04:45	Dale L. Simmons	2415728
	06/06/2023			06/11/2023 04:57	Dale L. Simmons	2415729
	06/06/2023			06/11/2023 05:09	Dale L. Simmons	2415730
	06/06/2023			06/11/2023 05:18	Dale L. Simmons	2415731
	06/06/2023			06/11/2023 05:30	Dale L. Simmons	2415732
	06/06/2023			06/11/2023 05:36	Dale L. Simmons	2415748
SM 2540 C-2015	06/06/2023			06/08/2023 15:07	Yijie Li	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
SM 2540 D-2015	06/06/2023			06/08/2023 15:07	Yijie Li	2415728, 2415729, 2415730, 2415731, 2415732, 2415748
SM 4500-F- C-2011	06/06/2023			06/16/2023 20:48	Adam P Silver	2415728
	06/06/2023			06/16/2023 20:53	Adam P Silver	2415729
	06/06/2023			06/21/2023 20:01	Dale L. Simmons	2415730
	06/06/2023			06/21/2023 20:07	Dale L. Simmons	2415731
	06/06/2023			06/21/2023 20:12	Dale L. Simmons	2415732
	06/06/2023			06/21/2023 20:17	Dale L. Simmons	2415748
SM 5310 B-2011	06/06/2023			06/12/2023 18:40	Elise M. Gillis	2415738
	06/06/2023			06/12/2023 18:54	Elise M. Gillis	2415739
	06/06/2023			06/12/2023 19:09	Elise M. Gillis	2415740
	06/06/2023			06/12/2023 19:54	Elise M. Gillis	2415741
	06/06/2023			06/12/2023 20:08	Elise M. Gillis	2415742
	06/06/2023			06/12/2023 20:22	Elise M. Gillis	2415750
	06/06/2023			06/12/2023 20:22	Elise M. Gillis	2415750
SM 5310 B-2011 dissolved	06/06/2023			06/07/2023 17:32	Elise M. Gillis	2415733
	06/06/2023			06/07/2023 18:16	Elise M. Gillis	2415734
	06/06/2023			06/07/2023 18:31	Elise M. Gillis	2415735

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011 dissolved	06/06/2023			06/07/2023 18:46	Elise M. Gillis	2415736
	06/06/2023			06/07/2023 19:01	Elise M. Gillis	2415737
	06/06/2023			06/12/2023 15:53	Elise M. Gillis	2415749