

Chemical Analysis Report

SO-DIST-2019-10-18-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **2019 SMP : Lake Myakka**

Request ID: **RQ-2019-10-14-47**

Customer: **SO-DIST**

Project ID: **SMP**

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FLDEP South District Office
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Date Certified: 06-NOV-2019 11:13



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 group are included in this report: Nutrients.

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: LakeMyakka(Upper)

Collection Date/Time: 10/17/2019 11:30

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2129433	EPA 180.1 Rev. 2.0	Turbidity	9.2		NTU	P372750	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P373389	
		Sulfate	110		mg SO4/L	P373391	
	SM 2120 B	Color (true)	140		PCU	P372857	
	SM 2320 B-97	Total Alkalinity	36		mg CaCO3/L	P373039	
	SM 2540 C-97	TDS	235		mg/L	P373315	
	SM 2540 D-97	TSS	8	I	mg/L	P373286	
	SM 4500 F-C-97	Fluoride	0.25		mg F/L	P373042	
2129435	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P373046	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P372990	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P373064	
	EPA 365.1 Rev. 2.0	Total-P	0.35		mg P/L	P372908	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P372969	
2129437	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.24		mg P/L	P372789	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 350.1 Rev. 2.0: The result was confirmed on 10/23/2019.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LakeMyakka(Upper)

Collection Date/Time: 10/17/2019 11:35

Field ID: G3SD0133_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2129434	EPA 180.1 Rev. 2.0	Turbidity	8.5		NTU	P372750	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P373389	
		Sulfate	110		mg SO4/L	P373391	
	SM 2120 B	Color (true)	140		PCU	P372857	
	SM 2320 B-97	Total Alkalinity	36		mg CaCO3/L	P373039	
	SM 2540 C-97	TDS	252		mg/L	P373316	
	SM 2540 D-97	TSS	8	I	mg/L	P373287	
	SM 4500 F-C-97	Fluoride	0.25		mg F/L	P373042	
2129436	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P373046	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P372990	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P373064	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P372909	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P372969	
2129438	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.26		mg P/L	P372789	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 350.1 Rev. 2.0: The result was confirmed on 10/23/2019.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P372750

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373389

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373391

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373046

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P372990

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373064

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P372908

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P372909

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P372789

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P372857

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P373039

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97
Batch ID: P373315

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P373316

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P373286

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P373287

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P373042

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P372969

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P373389

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P373391

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P373046

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P372990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P373064

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P372908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P372909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P372789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	95.7		P	90 - 110

Reference Method: SM 2120 B
 Batch ID: P372857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P373039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P373042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P372969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129443	Chloride	99.1		P	90 - 110
2129508	Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373391

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129443	Sulfate	97.9		P	90 - 110
2129508	Sulfate	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129444	Ammonia-N	97.9	96.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P372990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129444	Kjeldahl Nitrogen	101	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129444	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P372908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129312	Total-P	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P372909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129444	Total-P	101	99.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P373042

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129511	Fluoride	98.3	99.0	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P372969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2129179	Organic Carbon	98.0	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P372750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129379	Turbidity	1.63	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129443	Chloride	0.308	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129443	Sulfate	0.124	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129444	Ammonia-N	1.49	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P372990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129444	Kjeldahl Nitrogen	4.24	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129444	NO2NO3-N	0.766	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P372908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129312	Total-P	1.47	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P372909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129444	Total-P	1.79	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P372789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129378	O-Phosphate-P	0.211	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P372857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129373	Color (true)	1.79	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P373039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129511	Total Alkalinity	0.484	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P373315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129374	TDS	5.98	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P373316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129443	TDS	3.98	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P373042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129511	Fluoride	0.524	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P372969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2129179	Organic Carbon	0.489	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A95071

Included Lab Sample IDs: 2129433, 2129434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A95090

Included Lab Sample IDs: 2129437, 2129438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.7	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A95126

Included Lab Sample IDs: 2129433, 2129434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	97.0	P/P	90 - 115

Reference Method: SM 5310 B-00

Run ID: A95164

Included Lab Sample IDs: 2129435, 2129436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	94.7	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A95197

Included Lab Sample IDs: 2129433, 2129434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A95197

Included Lab Sample IDs: 2129433, 2129434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A95203

Included Lab Sample IDs: 2129435, 2129436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A95205

Included Lab Sample IDs: 2129435, 2129436

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A95211

Included Lab Sample IDs: 2129435, 2129436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A95245

Included Lab Sample IDs: 2129435, 2129436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	107	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A95307

Included Lab Sample IDs: 2129433, 2129434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	99.7	100	P/P	90 - 110

* 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 SMP	MS
					LCS	
EPA 180.1 Rev. 2.0	Turbidity				1.63	
EPA 300.0 Rev. 2.1	Chloride	99.9	99.1	98.1	0.308	
	Sulfate	98.9	97.9	98.0	0.124	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	97.9	96.1		1.49
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	101	106		4.24
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	98.5	103	104		0.766
EPA 365.1 Rev. 2.0	Total-P	96.9	102	100		1.47
	Total-P	97.4	101	99.3		1.79
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	95.7				0.211
SM 2120 B	Color (true)	98.9			1.79	
SM 2320 B-97	Total Alkalinity	103			0.484	
SM 2540 C-97	TDS				5.98	
	TDS				3.98	
SM 4500 F-C-97	Fluoride	97.9	98.3	99.0		0.524
SM 5310 B-00	Organic Carbon	97.9	98.0	98.8		0.489

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2129433, 2129434
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2129433, 2129434
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2129433, 2129434
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2129435, 2129436
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2129435, 2129436
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2129435, 2129436
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2129435, 2129436
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2129437, 2129438
SM 2120 B / E31780	True Color measured at 450 nm	2129433, 2129434
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2129433, 2129434
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2129433, 2129434
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2129433, 2129434
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2129433, 2129434
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2129435, 2129436

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	10/18/2019			10/18/2019 15:49	Samantha Davila	2129433, 2129434
EPA 300.0 Rev. 2.1	10/18/2019			10/29/2019 22:21	Julia Storbeck	2129433
	10/18/2019			10/29/2019 22:33	Julia Storbeck	2129434
	10/18/2019			10/30/2019 16:17	Julia Storbeck	2129433
	10/18/2019			10/30/2019 16:29	Julia Storbeck	2129434
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	10/18/2019			10/23/2019 13:59	Ping Hua	2129436
EPA 351.2 Rev. 2.0	10/18/2019	10/23/2019 12:50	Sima Feizi	10/24/2019 16:16	Jhamieka S. Greenwood	2129435
	10/18/2019	10/23/2019 12:50	Sima Feizi	10/24/2019 16:18	Jhamieka S. Greenwood	2129436
EPA 353.2 Rev. 2.0	10/18/2019			10/24/2019 10:25	Beverly Y. Sanders	2129435
	10/18/2019			10/24/2019 10:26	Beverly Y. Sanders	2129436
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	10/18/2019	10/22/2019 14:40	Lipi Saha	10/23/2019 13:35	Rosalyn Ballman	2129436
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	10/18/2019			10/18/2019 16:09	Virginia P. Brown	2129438
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SM 2320 B-97	10/18/2019			10/23/2019 23:33	Dale L. Simmons	2129433
	10/18/2019			10/23/2019 23:45	Dale L. Simmons	2129434
SM 2540 C-97	10/18/2019			10/23/2019 14:58	Yijie Li	2129433, 2129434
SM 2540 D-97	10/18/2019			10/23/2019 14:58	Yijie Li	2129433, 2129434
SM 4500 F-C-97	10/18/2019			10/23/2019 23:33	Dale L. Simmons	2129433
	10/18/2019			10/23/2019 23:45	Dale L. Simmons	2129434
SM 5310 B-00	10/18/2019			10/22/2019 07:10	Madeline Funaro	2129435
	10/18/2019			10/22/2019 07:25	Madeline Funaro	2129436