

Chemical Analysis Report

NE-DIST-2019-12-17-01

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

Event Description: **Interlachen 2**
Request ID: **RQ-2019-12-16-15**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

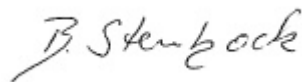
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This Report replaces the previous Report Serial Number: 0119757

Report Comment: Sample location name corrected

Revision certified by: Dr. rer. nat. Bettina Steinbock, Environmental

Date Certified: 10-JAN-2020 16:47



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: Church Lake Center

Collection Date/Time: 12/16/2019 11:05

Field ID: G1NE0867

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2144399	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P376035	
	EPA 300.0 Rev. 2.1	Chloride	5.7		mg Cl/L	P376407	
		Sulfate	2.9		mg SO4/L	P376409	
	SM 2120 B	Color (true)	10	A	PCU	P376093	
	SM 2320 B-97	Total Alkalinity	4.4		mg CaCO3/L	P376375	
	SM 2540 C-97	TDS	17	I	mg/L	P376490	
	SM 2540 D-97	TSS	2	U	mg/L	P376495	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P376379	
2144401	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P376350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P376558	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P376242	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P376080	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P376167	
2144403	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P375994	

Ref. Method and Comment:

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

Sample Location: Gillis Pond Center

Collection Date/Time: 12/16/2019 12:05

Field ID: G1NE0863

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2144400	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P376035	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P376407	
		Sulfate	3.2		mg SO4/L	P376409	
	SM 2120 B	Color (true)	82		PCU	P376093	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P376375	
	SM 2540 C-97	TDS	38		mg/L	P376493	
	SM 2540 D-97	TSS	2	I	mg/L	P376498	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P376379	
2144402	EPA 350.1 Rev. 2.0	Ammonia-N	0.27		mg N/L	P376350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P376558	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.41		mg N/L	P376242	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P376080	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P376167	
2144404	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P375994	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P376035

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376407

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376409

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P376350

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P376558

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P376242

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P376080

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P375994

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

Reference Method: SM 2120 B
Batch ID: P376093

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P376375

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

Reference Method: SM 2540 C-97
Batch ID: P376490

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P376493

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P376495

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P376498

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P376379

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P376167

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: P376407

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376409

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P376350

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P376558

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P376242

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P376080

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P375994

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.2		P	90 - 110

Reference Method: SM 2120 B
Batch ID: P376093

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P376375

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P376379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P376167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144399	Chloride	99.9	99.9	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144399	Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P376350

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144401	Ammonia-N	99.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P376558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144460	Kjeldahl Nitrogen	97.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P376242

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144360	NO2NO3-N	98.3	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P376080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144324	Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P375994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144363	O-Phosphate-P	95.9	96.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P376379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2145125	Fluoride	102	102	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P376167

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2144402	Organic Carbon	102	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P376035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144660	Turbidity	4.47	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144399	Chloride	0.0379	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P376409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144399	Sulfate	0.0274	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P376350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144401	Ammonia-N	2.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P376558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144460	Kjeldahl Nitrogen	2.75	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P376242

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144360	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P376080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144324	Total-P	1.97	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P375994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144363	O-Phosphate-P	0.592	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P376093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144399	Color (true)	12.3	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P376375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2145125	Total Alkalinity	0.364	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P376490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144356	TDS	7.16	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P376493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2145018	TDS	1.01	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P376379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2145125	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P376167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2144402	Organic Carbon	0.0328	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A96398

Included Lab Sample IDs: 2144403, 2144404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.0	97.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A96416

Included Lab Sample IDs: 2144399, 2144400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A96432

Included Lab Sample IDs: 2144399, 2144400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	99.0	P/P	90 - 115

Reference Method: SM 5310 B-00

Run ID: A96470

Included Lab Sample IDs: 2144401, 2144402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.3	98.8	P/P	90 - 110
Organic Carbon	98.8	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A96486

Included Lab Sample IDs: 2144401, 2144402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A96503

Included Lab Sample IDs: 2144401, 2144402

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A96549

Included Lab Sample IDs: 2144401, 2144402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	101	P/P	90 - 110
Ammonia-N	99.5	99.5	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A96559

Included Lab Sample IDs: 2144399, 2144400

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

Reference Method: SM 2320 B-97

Run ID: A96559

Included Lab Sample IDs: 2144399, 2144400

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

Reference Method: SM 4500 F-C-97

Run ID: A96559

Included Lab Sample IDs: 2144399, 2144400

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A96570

Included Lab Sample IDs: 2144399, 2144400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.6	97.6	P/P	90 - 110
Sulfate	97.5	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A96656

Included Lab Sample IDs: 2144401, 2144402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	99.9	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		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					4.47	
EPA 300.0 Rev. 2.1	Chloride	99.6	99.9	99.9			0.0379
	Sulfate	101	101	101			0.0274
EPA 350.1 Rev. 2.0	Ammonia-N	99.9	99.8	102			2.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	97.2	101			2.75
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	98.3	98.3			0.0
EPA 365.1 Rev. 2.0	Total-P	103	103	105			1.97
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2	95.9	96.6			0.592
SM 2120 B	Color (true)	98.8				12.3	
SM 2320 B-97	Total Alkalinity	103				0.364	
SM 2540 C-97	TDS					7.16	
	TDS					1.01	
SM 4500 F-C-97	Fluoride	99.5	102	102			0.0
SM 5310 B-00	Organic Carbon	99.8	102	102			0.0328

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2144399, 2144400
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2144399, 2144400
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2144399, 2144400
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2144401, 2144402
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2144401, 2144402
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2144401, 2144402
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2144401, 2144402
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2144403, 2144404
SM 2120 B / E31780	True Color measured at 450 nm	2144399, 2144400
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2144399, 2144400
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2144399, 2144400
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2144399, 2144400
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2144399, 2144400
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2144401, 2144402

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	12/17/2019			12/17/2019 17:24	Blanca Fach	2144399, 2144400
EPA 300.0 Rev. 2.1	12/17/2019			12/25/2019 07:06	Jhamieka S. Greenwood	2144399
	12/17/2019			12/25/2019 09:06	Jhamieka S. Greenwood	2144400
EPA 350.1 Rev. 2.0	12/17/2019			12/23/2019 12:53	Ping Hua	2144401
	12/17/2019			12/23/2019 15:08	Ping Hua	2144402
EPA 351.2 Rev. 2.0	12/17/2019	12/30/2019 11:45	Sima Feizi	01/02/2020 17:13	Virginia P. Brown	2144401
	12/17/2019	12/30/2019 11:45	Sima Feizi	01/02/2020 17:14	Virginia P. Brown	2144402
EPA 353.2 Rev. 2.0	12/17/2019			12/20/2019 11:18	Beverly Y. Sanders	2144401
	12/17/2019			12/20/2019 11:19	Beverly Y. Sanders	2144402
EPA 365.1 Rev. 2.0	12/17/2019	12/18/2019 14:20	Lipi Saha	12/19/2019 15:48	Benjamin T. Nordmann	2144401
	12/17/2019	12/18/2019 14:20	Lipi Saha	12/19/2019 15:49	Benjamin T. Nordmann	2144402
EPA 365.1 Rev. 2.0 dissolved	12/17/2019			12/17/2019 15:42	Samantha Davila	2144403
	12/17/2019			12/17/2019 15:43	Samantha Davila	2144404
SM 2120 B	12/17/2019			12/17/2019 17:07	Madeline Funaro	2144399
	12/17/2019			12/17/2019 17:08	Madeline Funaro	2144400
SM 2320 B-97	12/17/2019			12/24/2019 10:04	Dale L. Simmons	2144399
	12/17/2019			12/24/2019 10:14	Dale L. Simmons	2144400
SM 2540 C-97	12/17/2019			12/19/2019 14:11	Yijie Li	2144399, 2144400
SM 2540 D-97	12/17/2019			12/19/2019 14:11	Yijie Li	2144399, 2144400
SM 4500 F-C-97	12/17/2019			12/24/2019 10:04	Dale L. Simmons	2144399
	12/17/2019			12/24/2019 10:14	Dale L. Simmons	2144400
SM 5310 B-00	12/17/2019			12/18/2019 15:56	Madeline Funaro	2144402
	12/17/2019			12/18/2019 19:55	Madeline Funaro	2144401