

Chemical Analysis Report

TLH-ROC-2019-10-28-01

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

Event Description: **Run 6**
Request ID: **RQ-2019-09-30-08**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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2600 Blair Stone Rd
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 13-NOV-2019 09:26

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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: RATTLESNAKE LAKE CENTER

Collection Date/Time: 10/28/2019 11:35

Field ID: G3TLHR0013

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131962	EPA 180.1 Rev. 2.0	Turbidity	1.2	A	NTU	P373360	
	EPA 300.0 Rev. 2.1	Chloride	1.8		mg Cl/L	P373762	
		Sulfate	0.81		mg SO4/L	P373766	
	SM 2120 B	Color (true)	14		PCU	P373377	
	SM 2320 B-97	Total Alkalinity	1.1	I	mg CaCO3/L	P373443	
	SM 2540 C-97	TDS	17	I	mg/L	P373708	
	SM 2540 D-97	TSS	2	U	mg/L	P373519	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P373446	
2131965	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P373540	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27		mg N/L	P373504	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P373436	
	EPA 365.1 Rev. 2.0	Total-P	0.005		mg P/L	P373416	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P373473	
2131968	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P373370	

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: CRYSTAL LAKE CENTER

Collection Date/Time: 10/28/2019 12:50

Field ID: G3TLHR0012

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131963	EPA 180.1 Rev. 2.0	Turbidity	0.50		NTU	P373360	
	EPA 300.0 Rev. 2.1	Chloride	2.6		mg Cl/L	P373762	
		Sulfate	3.8		mg SO4/L	P373766	
	SM 2120 B	Color (true)	2.5	U	PCU	P373377	
	SM 2320 B-97	Total Alkalinity	5.6		mg CaCO3/L	P373443	
	SM 2540 C-97	TDS	15	I	mg/L	P373708	
	SM 2540 D-97	TSS	2	U	mg/L	P373519	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P373446	
2131966	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P373540	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.17	I	mg N/L	P373504	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P373436	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P373416	
	SM 5310 B-00	Organic Carbon	2.0		mg C/L	P373473	
2131969	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P373370	

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: DUNFORD LAKE

Collection Date/Time: 10/28/2019 13:25

Field ID: G3TLHR0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131964	EPA 180.1 Rev. 2.0	Turbidity	0.65		NTU	P373360	
	EPA 300.0 Rev. 2.1	Chloride	2.2		mg Cl/L	P373762	
		Sulfate	0.75		mg SO4/L	P373766	
	SM 2120 B	Color (true)	11	A	PCU	P373377	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P373443	
	SM 2540 C-97	TDS	19	I	mg/L	P373708	
	SM 2540 D-97	TSS	2	I	mg/L	P373519	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P373446	
2131967	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P373540	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35		mg N/L	P373504	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P373436	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P373416	
	SM 5310 B-00	Organic Carbon	4.6		mg C/L	P373473	
2131970	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P373370	

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: P373360

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373762

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373540

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P373504

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373436

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P373416

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P373370

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

Reference Method: SM 2120 B
Batch ID: P373377

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P373443

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

Reference Method: SM 2540 C-97
Batch ID: P373708

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P373519

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P373446

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P373473

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: P373762

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P373766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P373540

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P373504

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P373436

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P373416

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P373370

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.3		P	90 - 110

Reference Method: SM 2120 B
 Batch ID: P373377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	85 - 115

Reference Method: SM 2320 B-97
 Batch ID: P373443

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P373446

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P373473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131557	Chloride	99.5		P	90 - 110
2131964	Chloride	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131557	Sulfate	100		P	90 - 110
2131964	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131967	Ammonia-N	97.9	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P373504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131955	Kjeldahl Nitrogen	96.8	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373436

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131955	NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P373416

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131954	Total-P	101	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P373370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131956	O-Phosphate-P	98.1	97.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P373446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131953	Fluoride	96.2	95.1	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P373473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131954	Organic Carbon	103	103	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P373360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131962	Turbidity	6.90	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131557	Chloride	0.0539	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131557	Sulfate	0.0220	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131967	Ammonia-N	1.11	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P373504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131955	Kjeldahl Nitrogen	2.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131955	NO2NO3-N	0.351	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P373416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131954	Total-P	4.79	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P373370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131956	O-Phosphate-P	0.891	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P373377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131964	Color (true)	2.69	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P373443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131953	Total Alkalinity	0.447	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P373708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131605	TDS	2.15	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P373446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131953	Fluoride	0.963	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P373473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131954	Organic Carbon	0.486	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: A95314

Included Lab Sample IDs: 2131962, 2131963, 2131964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A95318

Included Lab Sample IDs: 2131968, 2131969, 2131970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	99.8	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A95320

Included Lab Sample IDs: 2131962, 2131963, 2131964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	99.5	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A95355

Included Lab Sample IDs: 2131965, 2131966, 2131967

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

Reference Method: SM 2320 B-97

Run ID: A95356

Included Lab Sample IDs: 2131962, 2131963, 2131964

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

Reference Method: SM 4500 F-C-97

Run ID: A95356

Included Lab Sample IDs: 2131962, 2131963, 2131964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	99.1	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A95368

Included Lab Sample IDs: 2131965, 2131966, 2131967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A95381

Included Lab Sample IDs: 2131965, 2131966, 2131967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.2	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A95386

Included Lab Sample IDs: 2131965, 2131966, 2131967

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A95416

Included Lab Sample IDs: 2131965, 2131966, 2131967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	95.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A95511

Included Lab Sample IDs: 2131962, 2131963, 2131964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Chloride	102	102	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	102	103	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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					6.90	
EPA 300.0 Rev. 2.1	Chloride	99.7	99.5	99.1		0.0539	
	Sulfate	99.8	100	99.5		0.0220	
EPA 350.1 Rev. 2.0	Ammonia-N	98.9	97.9	99.2			1.11
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	96.8	99.6			2.78
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	98.5				0.351
EPA 365.1 Rev. 2.0	Total-P	97.3	101	106			4.79
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	98.1	97.1			0.891
SM 2120 B	Color (true)	98.7				2.69	
SM 2320 B-97	Total Alkalinity	104				0.447	
SM 2540 C-97	TDS					2.15	
SM 4500 F-C-97	Fluoride	96.9	96.2	95.1			0.963
SM 5310 B-00	Organic Carbon	105	103	103			0.486

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2131962, 2131963, 2131964
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2131962, 2131963, 2131964
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2131962, 2131963, 2131964
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2131965, 2131966, 2131967
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2131965, 2131966, 2131967
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2131965, 2131966, 2131967
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2131965, 2131966, 2131967
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2131968, 2131969, 2131970
SM 2120 B / E31780	True Color measured at 450 nm	2131962, 2131963, 2131964
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2131962, 2131963, 2131964
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2131962, 2131963, 2131964
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2131962, 2131963, 2131964
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2131962, 2131963, 2131964
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2131965, 2131966, 2131967

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	10/28/2019			10/29/2019 15:54	Rosalyn Ballman	2131962, 2131963, 2131964
EPA 300.0 Rev. 2.1	10/28/2019			11/05/2019 03:11	Jhamieka S. Greenwood	2131964
	10/28/2019			11/05/2019 07:24	Jhamieka S. Greenwood	2131962
	10/28/2019			11/05/2019 07:36	Jhamieka S. Greenwood	2131963
EPA 350.1 Rev. 2.0	10/28/2019			10/31/2019 12:03	Ping Hua	2131967
	10/28/2019			10/31/2019 12:21	Ping Hua	2131965
	10/28/2019			10/31/2019 12:22	Ping Hua	2131966
EPA 351.2 Rev. 2.0	10/28/2019	10/31/2019 12:35	Sima Feizi	11/01/2019 15:21	Jhamieka S. Greenwood	2131965
	10/28/2019	10/31/2019 12:35	Sima Feizi	11/01/2019 15:23	Jhamieka S. Greenwood	2131966
	10/28/2019	10/31/2019 12:35	Sima Feizi	11/01/2019 15:25	Jhamieka S. Greenwood	2131967
EPA 353.2 Rev. 2.0	10/28/2019			10/30/2019 11:32	Beverly Y. Sanders	2131965
	10/28/2019			10/30/2019 11:33	Beverly Y. Sanders	2131966
	10/28/2019			10/30/2019 11:34	Beverly Y. Sanders	2131967
EPA 365.1 Rev. 2.0	10/28/2019	10/30/2019 11:09	Vijayalakshmi Reddy	10/31/2019 14:57	Julia Storbeck	2131965
	10/28/2019	10/30/2019 11:09	Vijayalakshmi Reddy	10/31/2019 14:58	Julia Storbeck	2131966
	10/28/2019	10/30/2019 11:09	Vijayalakshmi Reddy	10/31/2019 14:59	Julia Storbeck	2131967
EPA 365.1 Rev. 2.0 dissolved	10/28/2019			10/29/2019 15:41	Virginia P. Brown	2131968
	10/28/2019			10/29/2019 15:42	Virginia P. Brown	2131969
	10/28/2019			10/29/2019 15:43	Virginia P. Brown	2131970
SM 2120 B	10/28/2019			10/29/2019 17:24	Madeline Funaro	2131962
	10/28/2019			10/29/2019 17:25	Madeline Funaro	2131963
	10/28/2019			10/29/2019 17:26	Madeline Funaro	2131964
SM 2320 B-97	10/28/2019			10/30/2019 19:16	Dale L. Simmons	2131962
	10/28/2019			10/30/2019 19:30	Dale L. Simmons	2131963
	10/28/2019			10/30/2019 19:39	Dale L. Simmons	2131964
SM 2540 C-97	10/28/2019			10/30/2019 15:03	Yijie Li	2131962, 2131963, 2131964
SM 2540 D-97	10/28/2019			10/30/2019 15:03	Yijie Li	2131962, 2131963, 2131964
SM 4500 F-C-97	10/28/2019			10/30/2019 19:16	Dale L. Simmons	2131962
	10/28/2019			10/30/2019 19:30	Dale L. Simmons	2131963
	10/28/2019			10/30/2019 19:39	Dale L. Simmons	2131964
SM 5310 B-00	10/28/2019			10/31/2019 02:03	Lauren Lees	2131965
	10/28/2019			10/31/2019 02:20	Lauren Lees	2131966
	10/28/2019			10/31/2019 02:34	Lauren Lees	2131967