

Chemical Analysis Report

CEN-DIST-2018-09-28-01

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

Event Description: **Ellen / Concord / Lotus**

Request ID: **RQ-2018-09-24-51**

Customer: **CEN-DIST**

Project ID: **SMP**

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Date Certified: 23-OCT-2018 14:07



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 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: Lake Lotus @ Center

Collection Date/Time: 09/27/2018 10:04

Field ID: G2CE0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2029525	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P352507	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P352817	
		Sulfate	7.4		mg SO4/L	P352819	
	SM 2120 B	Color (true)	53		PCU	P352478	
	SM 2320 B-97	Total Alkalinity	59	A	mg CaCO3/L	P352911	
	SM 2540 C-97	TDS	128		mg/L	P352990	
	SM 2540 D-97	TSS	4	I	mg/L	P352923	
	SM 4500 F-C-97	Fluoride	0.085	I	mg F/L	P352725	
2029528	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P353030	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P352607	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P352706	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P352588	
	SM 5310 B-00	Organic Carbon	9.6		mg C/L	P352734	
2029531	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P352487	

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: Lake Ellen @ Center

Collection Date/Time: 09/27/2018 10:53

Field ID: G2CE0060

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2029526	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P352507	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P352817	
		Sulfate	12		mg SO4/L	P352819	
	SM 2120 B	Color (true)	29		PCU	P352478	
	SM 2320 B-97	Total Alkalinity	7.0		mg CaCO3/L	P352911	
	SM 2540 C-97	TDS	63		mg/L	P352990	
	SM 2540 D-97	TSS	2	I	mg/L	P352923	
	SM 4500 F-C-97	Fluoride	0.055	I	mg F/L	P352725	
2029529	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P353030	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P352607	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P352706	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P352588	
	SM 5310 B-00	Organic Carbon	5.7		mg C/L	P352734	
2029532	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P352487	

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: Lake Concord at Center

Collection Date/Time: 09/27/2018 11:11

Field ID: G2CE0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2029527	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P352507	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P352817	
		Sulfate	6.3		mg SO4/L	P352819	
	SM 2120 B	Color (true)	14		PCU	P352478	
	SM 2320 B-97	Total Alkalinity	70		mg CaCO3/L	P352911	
	SM 2540 C-97	TDS	108	A	mg/L	P352990	
	SM 2540 D-97	TSS	5	IA	mg/L	P352923	
	SM 4500 F-C-97	Fluoride	0.059	I	mg F/L	P352725	
2029530	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P353030	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P352607	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P352706	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P352588	
	SM 5310 B-00	Organic Carbon	4.6		mg C/L	P352734	
2029533	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P352487	

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: P352507

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P352817

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P352819

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353030

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352607

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P352706

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352588

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352487

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

Reference Method: SM 2120 B
Batch ID: P352478

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P352911

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

Reference Method: SM 2540 C-97
Batch ID: P352990

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P352923

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P352725

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P352734

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: P352817

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P352819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P353030

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P352607

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: P352706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P352588

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: P352487

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

Reference Method: SM 2120 B
 Batch ID: P352478

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-97
 Batch ID: P352911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 107

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P352725

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P352734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P352817

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029514	Chloride	98.0		P	90 - 110
2029713	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P352819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029514	Sulfate	97.2		P	90 - 110
2029713	Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353030

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029529	Ammonia-N	103	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352607

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029495	Kjeldahl Nitrogen	99.1	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P352706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029528	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352588

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029530	Total-P	98.1	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029533	O-Phosphate-P	97.9	98.5	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P352725

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029525	Fluoride	101	99.1	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P352734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2029496	Organic Carbon	96.6	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P352507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029543	Turbidity	1.51	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P352817

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029514	Chloride	1.17	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P352819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029514	Sulfate	1.71	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029529	Ammonia-N	2.64	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029495	Kjeldahl Nitrogen	7.43	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P352706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029528	NO2NO3-N	1.33	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029530	Total-P	1.92	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029533	O-Phosphate-P	0.611	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P352478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029543	Color (true)	0.246	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P352911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029525	Total Alkalinity	0.466	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P352990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029527	TDS	3.70	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P352725

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029525	Fluoride	1.93	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P352734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2029496	Organic Carbon	0.649	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A86788

Included Lab Sample IDs: 2029525, 2029526, 2029527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	97.6	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A86789

Included Lab Sample IDs: 2029531, 2029532, 2029533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	98.0	P/P	90 - 110
O-Phosphate-P	99.0	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A86805

Included Lab Sample IDs: 2029525, 2029526, 2029527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A86839

Included Lab Sample IDs: 2029525, 2029526, 2029527

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A86871

Included Lab Sample IDs: 2029528

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A86874

Included Lab Sample IDs: 2029529, 2029530

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A86890

Included Lab Sample IDs: 2029528, 2029529, 2029530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A86892

Included Lab Sample IDs: 2029525, 2029526, 2029527

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

Reference Method: SM 4500 F-C-97

Run ID: A86892

Included Lab Sample IDs: 2029525, 2029526, 2029527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	104	P/P	90 - 110
Fluoride	105	102	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A86895

Included Lab Sample IDs: 2029528, 2029529, 2029530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	94.9	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A86962

Included Lab Sample IDs: 2029525, 2029526, 2029527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	103	P/P	90 - 110
Total Alkalinity	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A86972

Included Lab Sample IDs: 2029528, 2029529, 2029530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	97.7	P/P	90 - 110
Kjeldahl Nitrogen	98.2	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A87014

Included Lab Sample IDs: 2029528, 2029529, 2029530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	101	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	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				1.51	
EPA 300.0 Rev. 2.1	Chloride	99.3	98.0	100	1.17	
	Sulfate	97.6	97.2	98.1	1.71	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	103	106		2.64
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	99.1	109		7.43
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	104		1.33
EPA 365.1 Rev. 2.0	Total-P	103	98.1	100		1.92
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	97.9	98.5		0.611
SM 2120 B	Color (true)	100			0.246	
SM 2320 B-97	Total Alkalinity	104			0.466	
SM 2540 C-97	TDS				3.70	
SM 4500 F-C-97	Fluoride	102	101	99.1		1.93
SM 5310 B-00	Organic Carbon	94.0	96.6	95.8		0.649

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2029525, 2029526, 2029527
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2029525, 2029526, 2029527
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2029525, 2029526, 2029527
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2029528, 2029529, 2029530
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2029528, 2029529, 2029530
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2029528, 2029529, 2029530
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2029528, 2029529, 2029530
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2029531, 2029532, 2029533
SM 2120 B / E31780	True Color measured at 450 nm	2029525, 2029526, 2029527
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2029525, 2029526, 2029527
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2029525, 2029526, 2029527
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2029525, 2029526, 2029527
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2029525, 2029526, 2029527
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2029528, 2029529, 2029530

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	09/28/2018			09/28/2018 16:35	Megan Treadwell	2029525, 2029526, 2029527
EPA 300.0 Rev. 2.1	09/28/2018			10/05/2018 00:39	Lipi Saha	2029525
	09/28/2018			10/05/2018 00:51	Lipi Saha	2029526
	09/28/2018			10/05/2018 01:03	Lipi Saha	2029527
EPA 350.1 Rev. 2.0	09/28/2018			10/04/2018 11:45	Ping Hua	2029528
	09/28/2018			10/04/2018 11:47	Ping Hua	2029529
	09/28/2018			10/04/2018 11:48	Ping Hua	2029530
EPA 351.2 Rev. 2.0	09/28/2018	10/02/2018 15:30	Adrian Shelby	10/08/2018 10:37	Joseph Suarez	2029528
	09/28/2018	10/02/2018 15:30	Adrian Shelby	10/08/2018 10:42	Joseph Suarez	2029529
	09/28/2018	10/02/2018 15:30	Adrian Shelby	10/08/2018 10:44	Joseph Suarez	2029530
EPA 353.2 Rev. 2.0	09/28/2018			10/03/2018 14:35	Lauren Bottorf	2029528
	09/28/2018			10/03/2018 14:41	Lauren Bottorf	2029529
	09/28/2018			10/03/2018 14:43	Lauren Bottorf	2029530
EPA 365.1 Rev. 2.0	09/28/2018	10/02/2018 12:37	Sima Feizi	10/03/2018 09:44	Beverly Y. Sanders	2029528
	09/28/2018	10/02/2018 12:37	Sima Feizi	10/03/2018 11:08	Beverly Y. Sanders	2029529
	09/28/2018	10/02/2018 12:37	Sima Feizi	10/03/2018 11:09	Beverly Y. Sanders	2029530
EPA 365.1 Rev. 2.0 dissolved	09/28/2018			09/28/2018 16:04	Julia Storbeck	2029533
	09/28/2018			09/28/2018 16:10	Julia Storbeck	2029531
	09/28/2018			09/28/2018 16:15	Julia Storbeck	2029532
SM 2120 B	09/28/2018			09/28/2018 15:27	Chelsea Hernandez	2029525
	09/28/2018			09/28/2018 15:28	Chelsea Hernandez	2029526, 2029527
SM 2320 B-97	09/28/2018			10/08/2018 05:29	Dale L. Simmons	2029525
	09/28/2018			10/08/2018 07:28	Dale L. Simmons	2029526
	09/28/2018			10/08/2018 07:36	Dale L. Simmons	2029527
SM 2540 C-97	09/28/2018			10/03/2018 15:02	Yijie Li	2029525, 2029526, 2029527
SM 2540 D-97	09/28/2018			10/03/2018 15:02	Yijie Li	2029525, 2029526, 2029527
SM 4500 F-C-97	09/28/2018			10/03/2018 10:44	Dale L. Simmons	2029525
	09/28/2018			10/03/2018 13:55	Dale L. Simmons	2029526
	09/28/2018			10/03/2018 14:44	Dale L. Simmons	2029527
SM 5310 B-00	09/28/2018			10/03/2018 10:39	Megan Treadwell	2029528
	09/28/2018			10/03/2018 10:52	Megan Treadwell	2029529
	09/28/2018			10/03/2018 11:05	Megan Treadwell	2029530