

Chemical Analysis Report

CEN-DIST-2020-06-09-02

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

Event Description: **Gem and Park**
Request ID: **RQ-2020-06-08-40**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 24-JUN-2020 12:21

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the top of the "T".

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: Lake Gem at Center

Collection Date/Time: 06/08/2020 11:21

Field ID: G2CE0204

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2175214	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P382979	
	EPA 300.0 Rev. 2.1	Chloride	8.1		mg Cl/L	P383135	
		Sulfate	22		mg SO4/L	P383138	
	SM 2120 B-2011	Color (true)	10		PCU	P382975	
	SM 2320 B-2011	Total Alkalinity	52		mg CaCO3/L	P383085	
	SM 2540 C-2011	TDS	99		mg/L	P383512	
	SM 2540 D-2011	TSS	4	I	mg/L	P383446	
	SM 4500 F-C-2011	Fluoride	0.044	I	mg F/L	P383088	
2175216	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P383169	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P383062	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.033		mg N/L	P383007	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P383014	
	SM 5310 B-2011	Organic Carbon	5.2		mg C/L	P383058	
2175218	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P382990	

Ref. Method and Comment:

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

Sample Location: Lake Park at Center

Collection Date/Time: 06/08/2020 11:36

Field ID: G2CE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2175215	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P382979	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P383135	
		Sulfate	28		mg SO4/L	P383138	
	SM 2120 B-2011	Color (true)	12		PCU	P382975	
	SM 2320 B-2011	Total Alkalinity	51	A	mg CaCO3/L	P383085	
	SM 2540 C-2011	TDS	125		mg/L	P383511	
	SM 2540 D-2011	TSS	2	I	mg/L	P383445	
	SM 4500 F-C-2011	Fluoride	0.059	I	mg F/L	P383088	
2175217	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P383169	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P383062	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P383007	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P383014	
	SM 5310 B-2011	Organic Carbon	6.2		mg C/L	P383058	
2175219	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P382990	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-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: P382979

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383135

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383138

Component	Result	Code	Units
Sulfate	0.20	U	mg SO ₄ /L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383169

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383062

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383007

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383014

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P382990

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

Reference Method: SM 2120 B-2011
Batch ID: P382975

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P383085

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

Reference Method: SM 2540 C-2011
Batch ID: P383511

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P383512

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P383445

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P383446

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P383088

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P383058

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: P383135

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383138

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383062

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: P383007

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: P383014

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P382990

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

Reference Method: SM 2120 B-2011
Batch ID: P382975

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

Reference Method: SM 2320 B-2011
Batch ID: P383085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.8		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P383088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P383058

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2174945	Chloride	103		P	90 - 110
2175082	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383138

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2174945	Sulfate	105		P	90 - 110
2175082	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2175217	Ammonia-N	96.3	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383062

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2175217	Kjeldahl Nitrogen	105	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2175216	NO2NO3-N	99.3	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P382990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2175218	O-Phosphate-P	94.8	95.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P383088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2175215	Fluoride	97.6	98.1	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P383058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2175077	Organic Carbon	98.8	99.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P382979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175146	Turbidity	2.62	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175082	Chloride	0.750	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P383138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175082	Sulfate	0.719	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175217	Ammonia-N	1.60	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383062

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175217	Kjeldahl Nitrogen	2.70	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175216	NO2NO3-N	0.866	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175175	Total-P	0.122	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P382990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175218	O-Phosphate-P	0.736	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
 Batch ID: P382975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175180	Color (true)	0.865	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P383085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175215	Total Alkalinity	0.885	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P383511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175076	TDS	2.88	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P383512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175146	TDS	5.71	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
 Batch ID: P383446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175146	TSS	3.85	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P383088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175215	Fluoride	0.477	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P383058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2175077	Organic Carbon	0.246	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A99227

Included Lab Sample IDs: 2175214, 2175215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A99228

Included Lab Sample IDs: 2175214, 2175215

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A99237

Included Lab Sample IDs: 2175218, 2175219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.8	98.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99240

Included Lab Sample IDs: 2175216, 2175217

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

Reference Method: SM 5310 B-2011

Run ID: A99255

Included Lab Sample IDs: 2175216, 2175217

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

Reference Method: SM 2320 B-2011

Run ID: A99271

Included Lab Sample IDs: 2175214, 2175215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.3	97.6	P/P	90 - 110
Total Alkalinity	98.7	95.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A99271

Included Lab Sample IDs: 2175214, 2175215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	102	P/P	90 - 110
Fluoride	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99287

Included Lab Sample IDs: 2175216, 2175217

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99287

Included Lab Sample IDs: 2175216, 2175217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	97.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99295

Included Lab Sample IDs: 2175214, 2175215

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99309

Included Lab Sample IDs: 2175216, 2175217

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99330

Included Lab Sample IDs: 2175216, 2175217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	102	P/P	90 - 110
Kjeldahl Nitrogen	99.1	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					2.62	
EPA 300.0 Rev. 2.1	Chloride	102	104	103		0.750	
	Sulfate	104	106	105		0.719	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	96.3	98.0			1.60
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	105	109			2.70
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	99.3	98.3			0.866
EPA 365.1 Rev. 2.0	Total-P	102					0.122
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6	94.8	95.5			0.736
SM 2120 B-2011	Color (true)	100				0.865	
SM 2320 B-2011	Total Alkalinity	98.8				0.885	
SM 2540 C-2011	TDS					2.88	
	TDS					5.71	
SM 2540 D-2011	TSS					3.85	
SM 4500 F-C-2011	Fluoride	99.0	97.6	98.1			0.477
SM 5310 B-2011	Organic Carbon	98.8	98.8	99.1			0.246

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2175214, 2175215
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2175214, 2175215
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2175214, 2175215
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2175216, 2175217
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2175216, 2175217
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2175216, 2175217
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2175216, 2175217
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2175218, 2175219
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2175214, 2175215
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2175214, 2175215
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2175214, 2175215
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2175214, 2175215
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2175214, 2175215
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2175216, 2175217

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	06/09/2020			06/09/2020 17:02	Yen Ta	2175214, 2175215
EPA 300.0 Rev. 2.1	06/09/2020			06/11/2020 14:59	Elliott Rodriguez	2175214
	06/09/2020			06/11/2020 15:12	Elliott Rodriguez	2175215
EPA 350.1 Rev. 2.0	06/09/2020			06/13/2020 13:35	Ping Hua	2175217
	06/09/2020			06/13/2020 13:52	Ping Hua	2175216
EPA 351.2 Rev. 2.0	06/09/2020	06/11/2020 10:02	Sima Feizi	06/15/2020 13:18	Jhamieka S. Greenwood	2175217
	06/09/2020	06/11/2020 10:02	Sima Feizi	06/15/2020 13:31	Jhamieka S. Greenwood	2175216
EPA 353.2 Rev. 2.0	06/09/2020			06/10/2020 09:03	Beverly Y. Sanders	2175216
	06/09/2020			06/10/2020 09:12	Beverly Y. Sanders	2175217
EPA 365.1 Rev. 2.0	06/09/2020	06/10/2020 13:08	Yen Ta	06/12/2020 09:33	Lipi Saha	2175216
	06/09/2020	06/10/2020 13:08	Yen Ta	06/12/2020 09:34	Lipi Saha	2175217
EPA 365.1 Rev. 2.0 dissolved	06/09/2020			06/09/2020 15:40	Carlos Miranda	2175218
	06/09/2020			06/09/2020 15:43	Carlos Miranda	2175219
SM 2120 B-2011	06/09/2020			06/09/2020 15:51	Blanca Fach	2175214
	06/09/2020			06/09/2020 15:52	Blanca Fach	2175215
SM 2320 B-2011	06/09/2020			06/10/2020 16:31	Dale L. Simmons	2175215
	06/09/2020			06/10/2020 20:02	Dale L. Simmons	2175214
SM 2540 C-2011	06/09/2020			06/12/2020 15:15	Yijie Li	2175214, 2175215
SM 2540 D-2011	06/09/2020			06/12/2020 15:15	Yijie Li	2175214, 2175215
SM 4500 F-C-2011	06/09/2020			06/10/2020 16:20	Dale L. Simmons	2175215
	06/09/2020			06/10/2020 20:02	Dale L. Simmons	2175214
SM 5310 B-2011	06/09/2020			06/10/2020 18:02	David Boose	2175216
	06/09/2020			06/10/2020 18:14	David Boose	2175217