

Chemical Analysis Report

NE-DIST-2017-08-17-03

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

Event Description: **LSJR-RPS/LVS**
Request ID: **RQ-2017-08-14-56**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 05-SEP-2017 17:48

A handwritten signature in black ink, appearing to read "Liang Lin", is written on a light-colored, textured 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 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: SJR at Welaka

Collection Date/Time: 08/16/2017 13:00

Field ID: G2NE0774 08162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1922216	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P330440	
	EPA 300.0 Rev. 2.1	Chloride	310		mg Cl/L	P330714	
		Sulfate	94		mg SO4/L	P330716	
	SM 2120 B	Color (true)	49		PCU	P330434	
	SM 2320 B-97	Total Alkalinity	79		mg CaCO3/L	P330701	
	SM 2540 C-97	TDS	732	A	mg/L	P330978	
	SM 2540 D-97	TSS	8	I	mg/L	P330682	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P330705	
1922218	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P330557	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P330546	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P330566	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P330505	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P330769	
1922220	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330429	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: SJR at CM6

Collection Date/Time: 08/16/2017 10:15

Field ID: G2NE0229 08162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1922217	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P330440	
	EPA 300.0 Rev. 2.1	Chloride	220		mg Cl/L	P330714	
		Sulfate	69		mg SO4/L	P330716	
	SM 2120 B	Color (true)	120		PCU	P330434	
	SM 2320 B-97	Total Alkalinity	84		mg CaCO3/L	P330701	
	SM 2540 C-97	TDS	602		mg/L	P330978	
	SM 2540 D-97	TSS	7	I	mg/L	P330682	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P330705	
1922219	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P330557	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P330546	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.038		mg N/L	P330567	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P330505	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P330769	
1922221	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330429	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P330440

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330714

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330716

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330557

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330546

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330566

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330567

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: P330505

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330429

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P330434

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P330701

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

Reference Method: SM 2540 C-97
Batch ID: P330978

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330682

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P330705

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P330769

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: P330714

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330716

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330557

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330546

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330566

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330505

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	100		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P330701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P330705

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P330769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330714

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922330	Chloride	97.7		P	90 - 110
1922481	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922330	Sulfate	98.6		P	90 - 110
1922481	Sulfate	98.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922454	Kjeldahl Nitrogen	99.4	96.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922106	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922219	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330505

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922218	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922220	O-Phosphate-P	91.8	94.5	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P330705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922331	Fluoride	101	98.2	P/P	91 - 105

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P330440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922208	Turbidity	1.50	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922330	Chloride	1.18	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922330	Sulfate	1.31	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922162	Ammonia-N	1.57	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922454	Kjeldahl Nitrogen	1.88	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922106	NO2NO3-N	0.787	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922219	NO2NO3-N	0.406	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330505

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922218	Total-P	1.20	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P330429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922220	O-Phosphate-P	2.90	Spike	P	0 - 20

Reference Method: SM 2120 B
 Batch ID: P330434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922161	Color (true)	1.37	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P330701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922331	Total Alkalinity	0.675	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
 Batch ID: P330978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922216	TDS	2.05	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P330705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922331	Fluoride	1.93	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P330769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922193	Organic Carbon	0.0126	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: EPA 365.1 Rev. 2.0 dissolved
 Run ID: A78481
 Included Lab Sample IDs: 1922220, 1922221

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.6	P/P	90 - 110
O-Phosphate-P	98.5	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A78482

Included Lab Sample IDs: 1922216, 1922217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	106	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A78483

Included Lab Sample IDs: 1922216, 1922217

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78524

Included Lab Sample IDs: 1922218, 1922219

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78528

Included Lab Sample IDs: 1922218, 1922219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78559

Included Lab Sample IDs: 1922218, 1922219

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78569

Included Lab Sample IDs: 1922218, 1922219

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

Reference Method: SM 2320 B-97

Run ID: A78580

Included Lab Sample IDs: 1922216, 1922217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	99.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78580

Included Lab Sample IDs: 1922216, 1922217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A78584
 Included Lab Sample IDs: 1922216, 1922217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	99.9	P/P	90 - 110
Sulfate	98.2	98.5	P/P	90 - 110

Reference Method: SM 5310 B-00
 Run ID: A78598
 Included Lab Sample IDs: 1922218, 1922219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.2	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				1.50	
EPA 300.0 Rev. 2.1	Chloride	99.1	97.7 98.2		1.18	
	Sulfate	98.2	98.6 98.2		1.31	
EPA 350.1 Rev. 2.0	Ammonia-N	106				1.57
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	99.4 96.5			1.88
EPA 353.2 Rev. 2.0	NO2NO3-N	106	105 104			0.787
	NO2NO3-N	105	104 104			0.406
EPA 365.1 Rev. 2.0	Total-P	100	102 103			1.20
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	91.8 94.5			2.90
SM 2120 B	Color (true)				1.37	
SM 2320 B-97	Total Alkalinity	102			0.675	
SM 2540 C-97	TDS				2.05	
SM 4500 F-C-97	Fluoride	97.7	101 98.2			1.93
SM 5310 B-00	Organic Carbon	94.3				0.0126

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1922216, 1922217
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1922216, 1922217
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1922216, 1922217
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1922218, 1922219
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1922218, 1922219
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1922218, 1922219
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1922218, 1922219

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1922220, 1922221
SM 2120 B / E31780	True Color measured at 450 nm	1922216, 1922217
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1922216, 1922217
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1922216, 1922217
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1922216, 1922217
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1922216, 1922217
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1922218, 1922219

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	08/17/2017			08/17/2017 15:18	DeAsia Armster	1922216, 1922217
EPA 300.0 Rev. 2.1	08/17/2017			08/22/2017	Julia Storbeck	1922216, 1922217
EPA 350.1 Rev. 2.0	08/17/2017			08/18/2017	Sofia Elnemr	1922218, 1922219
EPA 351.2 Rev. 2.0	08/17/2017	08/21/2017	Adrian Shelby	08/22/2017	Joseph Suarez	1922218, 1922219
EPA 353.2 Rev. 2.0	08/17/2017			08/21/2017	Beverly Y. Sanders	1922218, 1922219
EPA 365.1 Rev. 2.0	08/17/2017	08/18/2017	Sima Feizi	08/22/2017	Lipi Saha	1922218, 1922219
EPA 365.1 Rev. 2.0 dissolved	08/17/2017			08/17/2017 13:46	Megan Treadwell	1922220
	08/17/2017			08/17/2017 14:35	Megan Treadwell	1922221
SM 2120 B	08/17/2017			08/17/2017 16:01	Tanya Welborn	1922216
	08/17/2017			08/17/2017 16:02	Tanya Welborn	1922217
SM 2320 B-97	08/17/2017			08/23/2017	Dale L. Simmons	1922216, 1922217
SM 2540 C-97	08/17/2017			08/21/2017	DeAsia Armster	1922216, 1922217
SM 2540 D-97	08/17/2017			08/21/2017	DeAsia Armster	1922216, 1922217
SM 4500 F-C-97	08/17/2017			08/23/2017	Dale L. Simmons	1922216, 1922217
SM 5310 B-00	08/17/2017			08/23/2017	Ping Hua	1922218, 1922219