

Chemical Analysis Report

SO-DIST-2019-02-12-01

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

Event Description: **Lee**
Request ID: **RQ-2019-02-11-35**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 28-FEB-2019 15:19

A handwritten signature in black ink, appearing to read "Liang Lin", 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: Drainage Ditch@CR850

Collection Date/Time: 02/11/2019 09:35

Field ID: G1SD0061

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2061658	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P358804	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P359449	
		Sulfate	26		mg SO4/L	P359453	
	SM 2120 B	Color (true)	64		PCU	P358810	
	SM 2320 B-97	Total Alkalinity	227		mg CaCO3/L	P359116	
	SM 2540 C-97	TDS	302		mg/L	P359129	
	SM 2540 D-97	TSS	18		mg/L	P359150	
	SM 4500 F-C-97	Fluoride	0.072	I	mg F/L	P359121	
2061660	EPA 350.1 Rev. 2.0	Ammonia-N	0.084		mg N/L	P359057	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P358838	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P359081	
	EPA 365.1 Rev. 2.0	Total-P	0.074		mg P/L	P358859	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P358985	
2061662	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P358814	

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: C-139Annex@DeerFenceRd

Collection Date/Time: 02/11/2019 11:00

Field ID: G1SD0076

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2061659	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P358804	
	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P359451	
		Sulfate	19		mg SO4/L	P359455	
	SM 2120 B	Color (true)	80		PCU	P358810	
	SM 2320 B-97	Total Alkalinity	223		mg CaCO3/L	P359116	
	SM 2540 C-97	TDS	340		mg/L	P359129	
	SM 2540 D-97	TSS	4	I	mg/L	P359150	
	SM 4500 F-C-97	Fluoride	0.26		mg F/L	P359121	
2061661	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P359057	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P358838	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	I	mg N/L	P359081	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P358859	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P358985	
2061663	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.036		mg P/L	P358814	

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: P358804

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359449

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359451

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359453

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359455

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359057

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358838

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359081

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358859

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358814

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

Reference Method: SM 2120 B
Batch ID: P358810

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P359116

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

Reference Method: SM 2540 C-97
Batch ID: P359129

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359150

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P359121

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P358985

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: P359449

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359451

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359453

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359455

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359057

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358838

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359081

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358859

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: P358814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.5		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P358810

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

Reference Method: SM 2320 B-97
Batch ID: P359116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P359121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	93.6		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P358985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061675	Chloride	103		P	90 - 110
2061726	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062087	Chloride	102		P	90 - 110
2062359	Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061675	Sulfate	102		P	90 - 110
2061726	Sulfate	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359455

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062087	Sulfate	101		P	90 - 110
2062359	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061706	Ammonia-N	100	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061676	Kjeldahl Nitrogen	109	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061637	NO2NO3-N	99.6	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061600	Total-P	102	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358814

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061677	O-Phosphate-P	95.1	96.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P359121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061786	Fluoride	92.6	93.1	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P358985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061620	Organic Carbon	101		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061636	Turbidity	4.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061675	Chloride	0.0456	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062087	Chloride	0.438	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061675	Sulfate	0.0756	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062087	Sulfate	0.848	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061706	Ammonia-N	0.173	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061676	Kjeldahl Nitrogen	3.08	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061637	NO2NO3-N	0.404	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P358859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061600	Total-P	3.34	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P358814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061677	O-Phosphate-P	0.845	Spike	P	0 - 20

Reference Method: SM 2120 B
 Batch ID: P358810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061675	Color (true)	1.57	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P359116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061786	Total Alkalinity	0.477	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P359129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061194	TDS	4.53	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P359121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061786	Fluoride	0.474	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P358985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061620	Organic Carbon	0.488	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 180.1 Rev. 2.0

Run ID: A89377

Included Lab Sample IDs: 2061658, 2061659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	101	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A89379

Included Lab Sample IDs: 2061658, 2061659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	100	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89380

Included Lab Sample IDs: 2061662, 2061663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89410

Included Lab Sample IDs: 2061660, 2061661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110
Total-P	102	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89421

Included Lab Sample IDs: 2061660, 2061661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	103	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A89440

Included Lab Sample IDs: 2061660, 2061661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.1	P/P	90 - 110
Organic Carbon	97.3	96.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89467

Included Lab Sample IDs: 2061660, 2061661

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89475

Included Lab Sample IDs: 2061660, 2061661

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89475

Included Lab Sample IDs: 2061660, 2061661

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

Reference Method: SM 2320 B-97

Run ID: A89490

Included Lab Sample IDs: 2061658, 2061659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.3	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A89490

Included Lab Sample IDs: 2061658, 2061659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	95.8	94.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89617

Included Lab Sample IDs: 2061658, 2061659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Chloride	104	104	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	104	104	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					4.07	
EPA 300.0 Rev. 2.1	Chloride	105	103	105		0.0456	
	Chloride	103	102	99.8		0.438	
	Sulfate	105	102	104		0.0756	
	Sulfate	104	101	103		0.848	
EPA 350.1 Rev. 2.0	Ammonia-N	99.1	100	99.8			0.173
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	109	105			3.08
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	99.6	100			0.404
EPA 365.1 Rev. 2.0	Total-P	102	102	106			3.34
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.5	95.1	96.1			0.845
SM 2120 B	Color (true)	100				1.57	
SM 2320 B-97	Total Alkalinity	102				0.477	
SM 2540 C-97	TDS					4.53	
SM 4500 F-C-97	Fluoride	93.6	92.6	93.1			0.474
SM 5310 B-00	Organic Carbon	97.1	101				0.488

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2061658, 2061659
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2061658, 2061659
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2061658, 2061659
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2061660, 2061661
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2061660, 2061661
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2061660, 2061661
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2061660, 2061661
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2061662, 2061663
SM 2120 B / E31780	True Color measured at 450 nm	2061658, 2061659
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2061658, 2061659
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2061658, 2061659
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2061658, 2061659
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2061658, 2061659
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2061660, 2061661

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	02/12/2019			02/12/2019 16:03	Adrian Shelby	2061658, 2061659
EPA 300.0 Rev. 2.1	02/12/2019			02/23/2019 02:08	Lipi Saha	2061658
	02/12/2019			02/23/2019 20:51	Lipi Saha	2061659
EPA 350.1 Rev. 2.0	02/12/2019			02/15/2019 12:28	Ping Hua	2061660
	02/12/2019			02/15/2019 12:30	Ping Hua	2061661
EPA 351.2 Rev. 2.0	02/12/2019	02/13/2019 12:15	Adrian Shelby	02/14/2019 12:46	Joseph Suarez	2061660
	02/12/2019	02/13/2019 12:15	Adrian Shelby	02/14/2019 12:48	Joseph Suarez	2061661
EPA 353.2 Rev. 2.0	02/12/2019			02/18/2019 12:19	Beverly Y. Sanders	2061660
	02/12/2019			02/18/2019 12:20	Beverly Y. Sanders	2061661
EPA 365.1 Rev. 2.0	02/12/2019	02/13/2019 12:40	Sima Feizi	02/13/2019 19:06	Rosalyn Ballman	2061660
	02/12/2019	02/13/2019 12:40	Sima Feizi	02/13/2019 19:10	Rosalyn Ballman	2061661
EPA 365.1 Rev. 2.0 dissolved	02/12/2019			02/12/2019 16:05	Jhamieka S. Greenwood	2061662
	02/12/2019			02/12/2019 16:06	Jhamieka S. Greenwood	2061663
SM 2120 B	02/12/2019			02/12/2019 16:15	Chelsea Hernandez	2061658
	02/12/2019			02/12/2019 16:16	Chelsea Hernandez	2061659
SM 2320 B-97	02/12/2019			02/16/2019 15:30	Dale L. Simmons	2061658
	02/12/2019			02/16/2019 15:46	Dale L. Simmons	2061659
SM 2540 C-97	02/12/2019			02/13/2019 15:22	Yijie Li	2061658, 2061659
SM 2540 D-97	02/12/2019			02/13/2019 15:22	Yijie Li	2061658, 2061659
SM 4500 F-C-97	02/12/2019			02/16/2019 15:30	Dale L. Simmons	2061658
	02/12/2019			02/16/2019 15:46	Dale L. Simmons	2061659
SM 5310 B-00	02/12/2019			02/14/2019 18:35	Chelsea Hernandez	2061660
	02/12/2019			02/14/2019 19:12	Chelsea Hernandez	2061661