

Chemical Analysis Report

SO-DIST-2017-02-28-01

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

Event Description: **SMP: 10K isles**
Request ID: **RQ-2017-02-27-13**
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
Attn: Ben Paswater

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Certified by: Colin Wright, Program Administrator

Date Certified: 22-MAR-2017 12:41

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: 3278P @ #4 South of Goodland

Collection Date/Time: 02/27/2017 10:30

Field ID: G1SD022717-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875762	EPA 180.1 Rev. 2.0	Turbidity	13	A	NTU	P320674	
	SM 2320 B-97	Total Alkalinity	141		mg CaCO3/L	P321322	
	SM 2540 D-97	TSS	16		mg/L	P321061	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P321325	
1875768	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P320794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47		mg N/L	P320715	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P320906	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P320708	
	SM 5310 B-00	Organic Carbon	3.7		mg C/L	P320854	
1875774	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P320681	

Sample Location: 3259M-ENRE-9 Channel to Everglades City

Collection Date/Time: 02/27/2017 14:00

Field ID: G1SD022717-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875763	EPA 180.1 Rev. 2.0	Turbidity	7.6		NTU	P320674	
	SM 2320 B-97	Total Alkalinity	145		mg CaCO3/L	P321322	
	SM 2540 D-97	TSS	13		mg/L	P321061	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P321325	
1875769	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P320794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P320715	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320906	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P320708	
	SM 5310 B-00	Organic Carbon	3.6		mg C/L	P320854	
1875775	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P320681	

Sample Location: 3259M-ENRE-10 Off 1/10000 Islands

Collection Date/Time: 02/27/2017 13:40

Field ID: G1SD022717-3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875764	EPA 180.1 Rev. 2.0	Turbidity	8.4		NTU	P320674	
	SM 2320 B-97	Total Alkalinity	136		mg CaCO3/L	P321322	
	SM 2540 D-97	TSS	13		mg/L	P321061	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P321325	
1875770	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P320794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P320715	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320906	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P320708	
	SM 5310 B-00	Organic Carbon	3.6		mg C/L	P320854	
1875776	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P320681	

Sample Location: 3259M-ENRE-8 Off Tripod Key

Collection Date/Time: 02/27/2017 11:10

Field ID: G1SD022717-4

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875765	EPA 180.1 Rev. 2.0	Turbidity	16		NTU	P320674	
	SM 2320 B-97	Total Alkalinity	141		mg CaCO3/L	P321322	
	SM 2540 D-97	TSS	19		mg/L	P321061	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P321325	
1875771	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P320794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P320715	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P320906	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P320708	
	SM 5310 B-00	Organic Carbon	3.6		mg C/L	P320854	
1875777	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P320681	

Sample Location: 8065-ENRE6

Collection Date/Time: 02/27/2017 11:55

Field ID: G1SD022717-5

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875766	EPA 180.1 Rev. 2.0	Turbidity	23		NTU	P320674	
	SM 2320 B-97	Total Alkalinity	128		mg CaCO3/L	P321322	
	SM 2540 D-97	TSS	24		mg/L	P321061	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P321325	
1875772	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P320794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54		mg N/L	P320715	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320906	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P320708	
	SM 5310 B-00	Organic Carbon	2.9		mg C/L	P320854	
1875778	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P320681	

Sample Location: 8065-ENRE6 (DUP)

Collection Date/Time: 02/27/2017 12:00

Field ID: G1SD022717-6

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875767	EPA 180.1 Rev. 2.0	Turbidity	23		NTU	P320674	
	SM 2320 B-97	Total Alkalinity	128		mg CaCO3/L	P321322	
	SM 2540 D-97	TSS	27	A	mg/L	P321061	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P321325	
1875773	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P320794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P320715	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320906	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P320708	
	SM 5310 B-00	Organic Carbon	2.8		mg C/L	P320854	
1875779	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P320681	

**Quality Assurance Report
Method Blank Results**

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320674

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320794

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320715

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320906

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: P320708

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320681

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

Reference Method: SM 2320 B-97
Batch ID: P321322

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

Reference Method: SM 2540 D-97
Batch ID: P321061

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P321325

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
 Batch ID: P320854

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P320794

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P320715

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P320906

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: P320708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	91.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P320681

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

Reference Method: SM 2320 B-97
 Batch ID: P321322

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P321325

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.4		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P320854

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

Reference Method: SM 5310 B-00
 Batch ID: P320854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P320794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875768	Ammonia-N	102	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P320715

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875884	Kjeldahl Nitrogen	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P320906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875769	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P320708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875771	Total-P	90.8	91.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P320681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875774	O-Phosphate-P	97.2	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P321325

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877747	Fluoride	96.2	97.6	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P320854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875768	Organic Carbon	94.8	94.4	P/P	85 - 115

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875762	Turbidity	0.755	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875768	Ammonia-N	2.80	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320715

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875884	Kjeldahl Nitrogen	0.541	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875769	NO2NO3-N	1.93	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875771	Total-P	0.207	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875774	O-Phosphate-P	0.860	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P321322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877747	Total Alkalinity	0.498	Sample	P	0 - 4.8

Reference Method: SM 2540 D-97
Batch ID: P321061

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875767	TSS	5.97	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P321325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877747	Fluoride	0.953	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P320854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875768	Organic Carbon	0.385	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: A74781
Included Lab Sample IDs: 1875762, 1875763, 1875764, 1875765, 1875766, 1875767

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A74782
Included Lab Sample IDs: 1875774, 1875775, 1875776, 1875777, 1875778, 1875779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	101	P/P	90 - 110
O-Phosphate-P	101	99.7	P/P	90 - 110
O-Phosphate-P	99.0	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A74822
Included Lab Sample IDs: 1875768, 1875769, 1875770, 1875771, 1875772, 1875773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	102	P/P	90 - 110
Ammonia-N	99.8	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A74823
Included Lab Sample IDs: 1875768, 1875769, 1875770, 1875771, 1875772, 1875773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A74852

Included Lab Sample IDs: 1875768, 1875769, 1875770, 1875771, 1875772, 1875773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74867

Included Lab Sample IDs: 1875768, 1875769, 1875770, 1875771, 1875772, 1875773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.7	P/P	90 - 110
Kjeldahl Nitrogen	99.7	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74872

Included Lab Sample IDs: 1875768, 1875769, 1875770, 1875771, 1875772, 1875773

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

Reference Method: SM 2320 B-97

Run ID: A75009

Included Lab Sample IDs: 1875762, 1875763, 1875764, 1875765, 1875766, 1875767

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

Reference Method: SM 4500 F-C-97

Run ID: A75009

Included Lab Sample IDs: 1875762, 1875763, 1875764, 1875765, 1875766, 1875767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	97.5	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				0.755	
EPA 350.1 Rev. 2.0	Ammonia-N	104	102	98.5		2.80
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	103	103		0.541
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	104		1.93
EPA 365.1 Rev. 2.0	Total-P	91.8	90.8	91.0		0.207
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0	97.2	98.1		0.860
SM 2320 B-97	Total Alkalinity	104			0.498	
SM 2540 D-97	TSS				5.97	
SM 4500 F-C-97	Fluoride	96.4	96.2	97.6		0.953
SM 5310 B-00	Organic Carbon	98.1	94.8	94.4		0.385

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1875774, 1875775, 1875776, 1875777, 1875778, 1875779
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1875768, 1875769, 1875770, 1875771, 1875772, 1875773

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	02/28/2017			02/28/2017 14:48	Sima Feizi	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
EPA 350.1 Rev. 2.0	02/28/2017			03/01/2017	Sofia Elnemr	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 351.2 Rev. 2.0	02/28/2017	03/01/2017	Adrian Shelby	03/03/2017	Joseph Suarez	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 353.2 Rev. 2.0	02/28/2017			03/03/2017	Beverly Y. Sanders	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 365.1 Rev. 2.0	02/28/2017	03/01/2017	Vijayalakshmi Reddy	03/01/2017	Lipi Saha	1875768, 1875769, 1875770, 1875771, 1875772, 1875773
EPA 365.1 Rev. 2.0 dissolved	02/28/2017			02/28/2017 15:30	Julia Storbeck	1875774
	02/28/2017			02/28/2017 15:45	Julia Storbeck	1875778, 1875779
	02/28/2017			02/28/2017 16:07	Julia Storbeck	1875775
	02/28/2017			02/28/2017 16:08	Julia Storbeck	1875776, 1875777
SM 2320 B-97	02/28/2017			03/10/2017	Dale L. Simmons	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
SM 2540 D-97	02/28/2017			03/01/2017	Yijie Li	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
SM 4500 F-C-97	02/28/2017			03/10/2017	Dale L. Simmons	1875762, 1875763, 1875764, 1875765, 1875766, 1875767
SM 5310 B-00	02/28/2017			03/02/2017	Julie Michelle Frank	1875768, 1875769, 1875770, 1875771, 1875772, 1875773