

Chemical Analysis Report

SO-DIST-2016-12-14-02

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

Event Description: **SMP: Yucca Yucca Alligator 2081**
Request ID: **RQ-2016-11-28-13**
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

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 06-JAN-2017 11:27

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light-colored 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: 2081 @ Burnt Store Road

Collection Date/Time: 12/13/2016 09:30

Field ID: G2SD0016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1857827	EPA 180.1 Rev. 2.0	Turbidity	5.2		NTU	P316809	
	EPA 300.0 Rev. 2.1	Chloride	44		mg Cl/L	P317356	
		Sulfate	16		mg SO4/L	P317360	
	SM 2120 B	Color (true)	56		PCU	P316804	
	SM 2320 B-97	Total Alkalinity	195		mg CaCO3/L	P317138	
	SM 2540 C-97	TDS	309		mg/L	P317408	
	SM 2540 D-97	TSS	4	I	mg/L	P317286	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P317330	
1857829	EPA 350.1 Rev. 2.0	Ammonia-N	0.043		mg N/L	P317313	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P316995	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P317149	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P317170	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P316966	
1857831	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.027		mg P/L	P316792	

Sample Location: 2081 @ Burnt Store Road Duplicate

Collection Date/Time: 12/13/2016 09:40

Field ID: G2SD0016-D

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1857828	EPA 180.1 Rev. 2.0	Turbidity	5.3		NTU	P316809	
	EPA 300.0 Rev. 2.1	Chloride	44		mg Cl/L	P317356	
		Sulfate	16		mg SO4/L	P317360	
	SM 2120 B	Color (true)	58		PCU	P316804	
	SM 2320 B-97	Total Alkalinity	196		mg CaCO3/L	P317138	
	SM 2540 C-97	TDS	302		mg/L	P317408	
	SM 2540 D-97	TSS	4	I	mg/L	P317286	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P317330	
1857830	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P317313	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P316995	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P317149	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P317170	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P316966	
1857832	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P316792	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P316809

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317356

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317360

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P317313

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P316995

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P317149

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P317170

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P316792

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

Reference Method: SM 2120 B
Batch ID: P316804

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P317138

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P317408

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P317286

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P317330

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P316966

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: P317356

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P317313

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P316995

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P317149

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P317149

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: P317170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P316792

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

Reference Method: SM 2320 B-97
Batch ID: P317138

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P317330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P316966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317356

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857880	Chloride	100		P	90 - 110
1858180	Chloride	96.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857880	Sulfate	95.9		P	90 - 110
1858180	Sulfate	91.8		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P317313

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857829	Ammonia-N	99.2	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P316995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857711	Kjeldahl Nitrogen	101	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P317149

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857803	NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P317170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857711	Total-P	99.6	92.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P316792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857492	O-Phosphate-P	98.2	98.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P317330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857881	Fluoride	96.7	96.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P316966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1857532	Organic Carbon	98.5	98.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P316809

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857802	Turbidity	5.16	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857880	Chloride	0.151	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P317360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857880	Sulfate	0.927	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P317313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857829	Ammonia-N	1.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P316995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857711	Kjeldahl Nitrogen	1.90	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P317149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857803	NO2NO3-N	0.588	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P317170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857711	Total-P	4.82	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P316792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857492	O-Phosphate-P	0.457	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P316804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857852	Color (true)	2.57	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P317138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857881	Total Alkalinity	0.776	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P317408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857802	TDS	7.48	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P317286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857802	TSS	5.41	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P317330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857881	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P316966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1857532	Organic Carbon	0.107	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: A73374
Included Lab Sample IDs: 1857831, 1857832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.0	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A73378
Included Lab Sample IDs: 1857827, 1857828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A73379

Included Lab Sample IDs: 1857827, 1857828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	97.5	P/P	95 - 105

Reference Method: SM 5310 B-00

Run ID: A73440

Included Lab Sample IDs: 1857829, 1857830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A73493

Included Lab Sample IDs: 1857829, 1857830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	97.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A73503

Included Lab Sample IDs: 1857827, 1857828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A73514

Included Lab Sample IDs: 1857830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A73524

Included Lab Sample IDs: 1857829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A73544

Included Lab Sample IDs: 1857829

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A73559

Included Lab Sample IDs: 1857829, 1857830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A73565

Included Lab Sample IDs: 1857827, 1857828

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A73573

Included Lab Sample IDs: 1857830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	97.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A73576

Included Lab Sample IDs: 1857827, 1857828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	101	101	P/P	90 - 110
Sulfate	93.8	96.0	P/P	90 - 110
Sulfate	96.0	93.8	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				5.16	
EPA 300.0 Rev. 2.1	Chloride	100	100 96.0		0.151	
	Sulfate	94.3	95.9 91.8		0.927	
EPA 350.1 Rev. 2.0	Ammonia-N	105	99.2 96.9			1.25
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	101 98.5			1.90
EPA 353.2 Rev. 2.0	NO2NO3-N	102	97.5			0.588
EPA 365.1 Rev. 2.0	Total-P	96.5	99.6 92.2			4.82
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.2 98.7			0.457
SM 2120 B	Color (true)				2.57	
SM 2320 B-97	Total Alkalinity	99.6			0.776	
SM 2540 C-97	TDS				7.48	
SM 2540 D-97	TSS				5.41	
SM 4500 F-C-97	Fluoride	98.5	96.7 96.7			0.0
SM 5310 B-00	Organic Carbon	99.5	98.5 98.6			0.107

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1857827, 1857828
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1857827, 1857828

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1857827, 1857828
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1857829, 1857830
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1857829, 1857830
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1857829, 1857830
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1857829, 1857830
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1857831, 1857832
SM 2120 B / E31780	True Color measured at 450 nm	1857827, 1857828
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1857827, 1857828
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1857827, 1857828
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1857827, 1857828
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1857827, 1857828
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1857829, 1857830

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	12/14/2016			12/14/2016 16:19	Julie Michelle Frank	1857827, 1857828
EPA 300.0 Rev. 2.1	12/14/2016			12/22/2016	Ping Hua	1857827, 1857828
EPA 350.1 Rev. 2.0	12/14/2016			12/22/2016	Sofia Elnemr	1857829, 1857830
EPA 351.2 Rev. 2.0	12/14/2016	12/19/2016	Adrian Shelby	12/20/2016	Joseph Suarez	1857829, 1857830
EPA 353.2 Rev. 2.0	12/14/2016			12/21/2016	Beverly Y. Sanders	1857829, 1857830
EPA 365.1 Rev. 2.0	12/14/2016	12/21/2016	Vijayalakshmi Reddy	12/22/2016	Beverly Y. Sanders	1857829
	12/14/2016	12/21/2016	Vijayalakshmi Reddy	12/23/2016	Lipi Saha	1857830
EPA 365.1 Rev. 2.0 dissolved	12/14/2016			12/14/2016 15:03	Julia Storbeck	1857831
	12/14/2016			12/14/2016 15:04	Julia Storbeck	1857832
SM 2120 B	12/14/2016			12/14/2016 16:31	Jared I. Manley	1857827
	12/14/2016			12/14/2016 16:32	Jared I. Manley	1857828
SM 2320 B-97	12/14/2016			12/17/2016	Dale L. Simmons	1857827, 1857828
SM 2540 C-97	12/14/2016			12/15/2016	Yijie Li	1857827, 1857828
SM 2540 D-97	12/14/2016			12/15/2016	Yijie Li	1857827, 1857828
SM 4500 F-C-97	12/14/2016			12/23/2016	Dale L. Simmons	1857827, 1857828
SM 5310 B-00	12/14/2016			12/17/2016	Julie Michelle Frank	1857829, 1857830