

Chemical Analysis Report

WQ-ASSESS-2017-03-01-01

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

Event Description: **Alligator Creek**
Request ID: **RQ-2017-02-27-65**
Customer: **WQ-ASSESS**
Project ID: **NWQI**

Send Reports to:
FL Dept. of Environmental Protection
Division Of Water Facilities, FL DEP
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 28-MAR-2017 11:50



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 groups are included in this report: Nutrients and Pesticides.

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: ALLIGATOR CREEK UPSTREAM OF SR 273

Collection Date/Time: 03/01/2017 09:05

Field ID: G3WA0005-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876710	EPA 180.1 Rev. 2.0	Turbidity	19	A	NTU	P320863	
	EPA 300.0 Rev. 2.1	Chloride	5.0		mg Cl/L	P321454	
		Sulfate	0.56		mg SO4/L	P321623	
	SM 2120 B	Color (true)	110		PCU	P320772	
	SM 2320 B-97	Total Alkalinity	8.1		mg CaCO3/L	P321208	
	SM 2540 C-97	TDS	42		mg/L	P321280	
	SM 2540 D-97	TSS	13		mg/L	P321217	
	SM 4500 F-C-97	Fluoride	0.038	I	mg F/L	P321043	
1876717	EPA 350.1 Rev. 2.0	Ammonia-N	0.060		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P321032	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P320992	
	EPA 365.1 Rev. 2.0	Total-P	0.067		mg P/L	P320974	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P320900	
1876724	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.018		mg P/L	P320766	

Ref. Method and Comment:

SM 2120 B: 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.

Sample Location: LITTLE ALLIGATOR CREEK AT SR 273

Collection Date/Time: 03/01/2017 09:44

Field ID: G3WA0006-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876711	EPA 180.1 Rev. 2.0	Turbidity	19		NTU	P320863	
	EPA 300.0 Rev. 2.1	Chloride	8.0	A	mg Cl/L	P321454	
		Sulfate	0.68		mg SO4/L	P321623	
	SM 2120 B	Color (true)	90	A	PCU	P320873	
	SM 2320 B-97	Total Alkalinity	15		mg CaCO3/L	P321208	
	SM 2540 C-97	TDS	61		mg/L	P321280	
	SM 2540 D-97	TSS	10		mg/L	P321217	
	SM 4500 F-C-97	Fluoride	0.047	I	mg F/L	P321043	
1876718	EPA 350.1 Rev. 2.0	Ammonia-N	0.038		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P321032	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P320992	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P320974	
	SM 5310 B-00	Organic Carbon	9.5		mg C/L	P320900	
1876725	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P320766	

Ref. Method and Comment:

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

Sample Location: ALLIGATOR CREEK UPSTREAM OF BENTLEY RD.

Collection Date/Time: 03/01/2017 10:10

Field ID: G3WA0004-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876712	EPA 180.1 Rev. 2.0	Turbidity	21		NTU	P320863	

Field ID: G3WA0004-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876712	EPA 300.0 Rev. 2.1	Chloride	7.7		mg Cl/L	P321454	
		Sulfate	0.60		mg SO4/L	P321623	
	SM 2120 B	Color (true)	81		PCU	P320772	
	SM 2320 B-97	Total Alkalinity	14		mg CaCO3/L	P321040	
	SM 2540 C-97	TDS	51		mg/L	P321281	
	SM 2540 D-97	TSS	10		mg/L	P321218	
	SM 4500 F-C-97	Fluoride	0.044	I	mg F/L	P321556	
1876719	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P321032	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.091		mg N/L	P320992	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P320974	
	SM 5310 B-00	Organic Carbon	8.8		mg C/L	P320900	
1876726	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P320766	

Ref. Method and Comment:

SM 2120 B: 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.

Sample Location: SCURLOCK CREEK AT PILGRIM RD.

Collection Date/Time: 03/01/2017 10:40

Field ID: G3WA0009-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876713	EPA 180.1 Rev. 2.0	Turbidity	8.3		NTU	P320863	
	EPA 300.0 Rev. 2.1	Chloride	3.0		mg Cl/L	P321454	
		Sulfate	0.34	I	mg SO4/L	P321623	
	SM 2120 B	Color (true)	150		PCU	P320769	
	SM 2320 B-97	Total Alkalinity	4.1		mg CaCO3/L	P321040	
	SM 2540 C-97	TDS	40		mg/L	P321281	
	SM 2540 D-97	TSS	6	I	mg/L	P321218	
1876720	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P321556	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P321032	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P320992	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P320974	
1876727	SM 5310 B-00	Organic Carbon	16		mg C/L	P320900	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.01	I	mg P/L	P320766	

Ref. Method and Comment:

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

Sample Location: PINE BARN CREEK AT WOODREST RD.

Collection Date/Time: 03/01/2017 11:10

Field ID: G3WA0011-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876714	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P320863	
	EPA 300.0 Rev. 2.1	Chloride	3.7		mg Cl/L	P321454	
		Sulfate	0.77		mg SO4/L	P321623	
	SM 2120 B	Color (true)	120		PCU	P320769	

Field ID: G3WA0011-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876714	SM 2320 B-97	Total Alkalinity	8.3		mg CaCO3/L	P321040	
	SM 2540 C-97	TDS	34		mg/L	P321281	
	SM 2540 D-97	TSS	4	I	mg/L	P321218	
	SM 4500 F-C-97	Fluoride	0.040	I	mg F/L	P321556	
1876721	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P321032	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P320992	
	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P320974	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P320900	
1876728	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.020		mg P/L	P320767	

Ref. Method and Comment:

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

Sample Location: UNNAMED CREEK AT WOODREST RD.

Collection Date/Time: 03/01/2017 11:40

Field ID: G3WA0010-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876715	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P320863	
	EPA 300.0 Rev. 2.1	Chloride	3.8		mg Cl/L	P321454	
		Sulfate	0.40	I	mg SO4/L	P321623	
	SM 2120 B	Color (true)	130		PCU	P320772	
1876722	SM 2320 B-97	Total Alkalinity	2.7		mg CaCO3/L	P321208	
	SM 2540 C-97	TDS	51		mg/L	P321281	
	SM 2540 D-97	TSS	14		mg/L	P321218	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P321556	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P321033	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P320992	
1876729	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P320975	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P320900	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P320767	

Ref. Method and Comment:

SM 2120 B: 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.

Sample Location: GILBERTS MILL CREEK AT AYCOCK RD.

Collection Date/Time: 03/01/2017 12:05

Field ID: G3WA0012-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876716	EPA 180.1 Rev. 2.0	Turbidity	5.7		NTU	P320863	
	EPA 300.0 Rev. 2.1	Chloride	3.5		mg Cl/L	P321454	
		Sulfate	0.42	I	mg SO4/L	P321623	
	SM 2120 B	Color (true)	140		PCU	P320769	
	SM 2320 B-97	Total Alkalinity	0.99	I	mg CaCO3/L	P321208	
	SM 2540 C-97	TDS	32		mg/L	P321281	
	SM 2540 D-97	TSS	5	I	mg/L	P321218	

Field ID: G3WA0012-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876716	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P321556	
1876723	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P321052	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P321033	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P320992	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P320975	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P320900	
1876730	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P320768	

Ref. Method and Comment:

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

Sample Location: ALLIGATOR CREEK UPSTREAM OF SR 273

Collection Date/Time: 03/01/2017 09:05

Field ID: G3WA0005-03012017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1876740	EPA 8321B	Sucralose**	0.061		ug/L	P320643	
1876741	USGS O-2060-01	Diuron	0.0040	U	ug/L	P320919	
		Fenuron	0.0080	U	ug/L	P320919	
		Imidacloprid	0.0040	U	ug/L	P320919	
		Linuron	0.0040	U	ug/L	P320919	
		Acetaminophen**	0.0040	U	ug/L	P320919	
		Carbamazepine**	4.0E-04	U	ug/L	P320919	
		Primidone**	0.0080	U	ug/L	P320919	
		Fluridone**	4.0E-04	U	ug/L	P320919	MS

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P320863

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P321454

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P321623

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P321052

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321032

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321033

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320992

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320974

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320975

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320766

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320767

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320768

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

Reference Method: EPA 8321B
Batch ID: P320643

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P320769

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P320772

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P320873

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P321040

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

Reference Method: SM 2320 B-97
Batch ID: P321208

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

Reference Method: SM 2540 C-97
Batch ID: P321280

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P321281

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P321217

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P321218

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
 Batch ID: P321043

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
 Batch ID: P321556

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P320900

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

Reference Method: USGS O-2060-01
 Batch ID: P320919

Component	Result	Code	Units
Acetaminophen	0.0040	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0040	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
Primidone	0.0080	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P321454

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P321623

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P321052

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321032

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321033

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: P320992

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320975

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320766

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320767

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.4		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P320643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	86.8		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
 Batch ID: P321040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	95 - 108

Reference Method: SM 2320 B-97
 Batch ID: P321208

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

Reference Method: SM 4500 F-C-97
 Batch ID: P321043

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	92 - 103

Reference Method: SM 4500 F-C-97
 Batch ID: P321556

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.4		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P320900

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

Reference Method: USGS O-2060-01
 Batch ID: P320919

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	119		P	40 - 140
Carbamazepine	122		P	40 - 140
Diuron	84.4		P	40 - 140
Fenuron	97.6		P	40 - 140
Fluridone	72.0		P	40 - 140
Imidacloprid	84.8		P	40 - 160
Linuron	132		P	40 - 140
Primidone	112		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P321454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876339	Chloride	92.8		P	90 - 110
1876711	Chloride	94.2		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876340	Sulfate	103		P	90 - 110
1876407	Sulfate	102		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877630	Kjeldahl Nitrogen	98.6	99.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877510	Kjeldahl Nitrogen	94.2	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876717	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876718	Total-P	96.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876852	Total-P	97.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876671	O-Phosphate-P	96.8	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320767

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876728	O-Phosphate-P	98.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876730	O-Phosphate-P	97.0	98.1	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P320643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875965	Sucralose	129	133	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P321043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876211	Fluoride	104	105	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P321556

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876846	Fluoride	99.6	99.6	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P320900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1876265	Organic Carbon	101	99.5	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P320919

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877342	Acetaminophen	61.2	61.2	P/P	40 - 140
1877342	Carbamazepine	49.3	56.5	P/P	40 - 140
1877342	Diuron	40.2	40.6	P/P	40 - 140
1877342	Fenuron	50.8	52.0	P/P	40 - 140
1877342	Fluridone	31.7	30.9	F/F	40 - 140
1877342	Imidacloprid	77.8	83.4	P/P	40 - 160
1877342	Linuron	54.0	67.6	P/P	40 - 140
1877342	Primidone	60.4	72.4	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320863

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876710	Turbidity	1.55	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876711	Chloride	0.187	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876407	Sulfate	0.0284	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876717	Ammonia-N	0.103	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877630	Kjeldahl Nitrogen	0.883	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877510	Kjeldahl Nitrogen	7.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876717	NO2NO3-N	0.633	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876718	Total-P	2.63	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876852	Total-P	2.44	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876671	O-Phosphate-P	1.94	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876728	O-Phosphate-P	0.422	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876730	O-Phosphate-P	1.13	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P320643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875965	Sucralose	2.92	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P320769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876710	Color (true)	4.14	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P320873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876711	Color (true)	4.51	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P321040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876846	Total Alkalinity	0.512	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P321208

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876212	Total Alkalinity	1.49	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P321280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876302	TDS	4.23	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
 Batch ID: P321281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876834	TDS	5.25	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P321217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876302	TSS	7.41	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P321218

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876834	TSS	1.90	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P321043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876211	Fluoride	0.503	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
 Batch ID: P321556

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876846	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P320900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1876265	Organic Carbon	0.837	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P320919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877342	Acetaminophen	0.0	Spike	P	0 - 30
1877342	Carbamazepine	13.3	Spike	P	0 - 30
1877342	Diuron	0.881	Spike	P	0 - 30
1877342	Fenuron	2.33	Spike	P	0 - 30
1877342	Fluridone	1.74	Spike	P	0 - 30
1877342	Imidacloprid	5.74	Spike	P	0 - 30
1877342	Linuron	22.4	Spike	P	0 - 30
1877342	Primidone	18.1	Spike	P	0 - 30

Quality Assurance Report Precision

* 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 Surrogates

Lab Sample ID: 1876740
Field Sample ID: G3WA0005-03012017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	104	P	40 - 150

Lab Sample ID: 1876741
Field Sample ID: G3WA0005-03012017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Acetaminophen-d4	76.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	70.6	P	40 - 160
USGS O-2060-01	Diuron-d6	43.4	P	40 - 150
USGS O-2060-01	Primidone-d5	69.8	P	40 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A74815
Included Lab Sample IDs: 1876724, 1876725, 1876726, 1876727, 1876728, 1876729, 1876730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.6	P/P	90 - 110
O-Phosphate-P	97.3	93.1	P/P	90 - 110
O-Phosphate-P	97.4	98.0	P/P	90 - 110
O-Phosphate-P	99.6	97.4	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A74816
Included Lab Sample IDs: 1876710, 1876712, 1876713, 1876714, 1876715, 1876716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	108	96.2	P/P	85 - 115
Color (true)	95.8	94.8	P/P	85 - 115
Color (true)	96.2	95.4	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A74856
Included Lab Sample IDs: 1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716

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

Reference Method: SM 2120 B
Run ID: A74857
Included Lab Sample IDs: 1876711

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

Reference Method: SM 2120 B
Run ID: A74857
Included Lab Sample IDs: 1876711

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.8	95.0	P/P	85 - 115

Reference Method: SM 5310 B-00
Run ID: A74870
Included Lab Sample IDs: 1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A74898
Included Lab Sample IDs: 1876740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	87.1	93.7	P/P	60 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A74901
Included Lab Sample IDs: 1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723

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

Reference Method: SM 2320 B-97
Run ID: A74917
Included Lab Sample IDs: 1876712, 1876713, 1876714

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

Reference Method: SM 4500 F-C-97
Run ID: A74917
Included Lab Sample IDs: 1876710, 1876711

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A74921
Included Lab Sample IDs: 1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	97.8	P/P	90 - 110
Ammonia-N	97.8	96.4	P/P	90 - 110

Reference Method: USGS O-2060-01
Run ID: A74928
Included Lab Sample IDs: 1876741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	102	125	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A74928

Included Lab Sample IDs: 1876741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	108	124	P/P	60 - 150
Diuron	114	122	P/P	60 - 150
Fenuron	107	115	P/P	60 - 150
Fluridone	104	108	P/P	60 - 150
Imidacloprid	86.8	100	P/P	60 - 150
Linuron	123	138	P/P	60 - 150
Primidone	116	116	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74939

Included Lab Sample IDs: 1876721, 1876722, 1876723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74941

Included Lab Sample IDs: 1876717, 1876718, 1876719, 1876720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74956

Included Lab Sample IDs: 1876722, 1876723

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74960

Included Lab Sample IDs: 1876717, 1876718, 1876719, 1876720, 1876721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	100	P/P	90 - 110
Kjeldahl Nitrogen	99.3	106	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A74976

Included Lab Sample IDs: 1876710, 1876711, 1876715, 1876716

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74977

Included Lab Sample IDs: 1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	93.9	94.0	P/P	90 - 110
Chloride	94.0	94.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74977

Included Lab Sample IDs: 1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	94.5	94.4	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A75102

Included Lab Sample IDs: 1876712, 1876713, 1876714, 1876715, 1876716

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A75123

Included Lab Sample IDs: 1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	103	100	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				1.55	
EPA 300.0 Rev. 2.1	Chloride	94.8	94.2 92.8		0.187	
	Sulfate	103	102 103		0.0284	
EPA 350.1 Rev. 2.0	Ammonia-N	103				0.103
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	98.6 99.9			0.883
	Kjeldahl Nitrogen	105	94.2 103			7.05
EPA 353.2 Rev. 2.0	NO2NO3-N	107	102 104			0.633
EPA 365.1 Rev. 2.0	Total-P	95.7	96.0 99.0			2.63
	Total-P	95.8	97.4 100			2.44
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	96.8 98.7			1.94
	O-Phosphate-P	101	98.0 98.5			0.422
	O-Phosphate-P	97.4	97.0 98.1			1.13
EPA 8321B	Sucralose	86.8	129 133			2.92
SM 2120 B	Color (true)				4.14	
	Color (true)				4.51	
SM 2320 B-97	Total Alkalinity	105			0.512	
	Total Alkalinity	104			1.49	
SM 2540 C-97	TDS				4.23	
	TDS				5.25	
SM 2540 D-97	TSS				7.41	
	TSS				1.90	
SM 4500 F-C-97	Fluoride	97.3	104 105			0.503
	Fluoride	98.4	99.6 99.6			0.0
SM 5310 B-00	Organic Carbon	101	101 99.5			0.837
USGS O-2060-01	Acetaminophen	119	61.2 61.2			0.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Carbamazepine	122	49.3	56.5		13.3
	Diuron	84.4	40.2	40.6		0.881
	Fenuron	97.6	50.8	52.0		2.33
	Fluridone	72.0	31.7	30.9		1.74
	Imidacloprid	84.8	77.8	83.4		5.74
	Linuron	132	54.0	67.6		22.4
	Primidone	112	60.4	72.4		18.1

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1876724, 1876725, 1876726, 1876727, 1876728, 1876729, 1876730
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1876740
SM 2120 B / E31780	True Color measured at 450 nm	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1876741

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	03/01/2017			03/02/2017 10:19	Sima Feizi	1876710
	03/01/2017			03/02/2017 10:21	Sima Feizi	1876711
	03/01/2017			03/02/2017 10:23	Sima Feizi	1876712
	03/01/2017			03/02/2017 10:25	Sima Feizi	1876713
	03/01/2017			03/02/2017 10:28	Sima Feizi	1876714
	03/01/2017			03/02/2017 10:30	Sima Feizi	1876715
	03/01/2017			03/02/2017 10:32	Sima Feizi	1876716
	03/01/2017			03/11/2017	Elisa J Lutz	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
EPA 300.0 Rev. 2.1	03/01/2017			03/15/2017	Elisa J Lutz	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
EPA 350.1 Rev. 2.0	03/01/2017			03/06/2017	Sofia Elnemr	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 351.2 Rev. 2.0	03/01/2017	03/07/2017	Adrian Shelby	03/08/2017	Joseph Suarez	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 353.2 Rev. 2.0	03/01/2017			03/06/2017	Beverly Y. Sanders	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 365.1 Rev. 2.0	03/01/2017	03/06/2017	Vijayalakshmi Reddy	03/07/2017	Lipi Saha	1876717, 1876718, 1876719, 1876720, 1876721, 1876722, 1876723
EPA 365.1 Rev. 2.0 dissolved	03/01/2017			03/01/2017 16:04	Julia Storbeck	1876728
	03/01/2017			03/01/2017 16:16	Julia Storbeck	1876724
	03/01/2017			03/01/2017 16:17	Julia Storbeck	1876725
	03/01/2017			03/01/2017 16:18	Julia Storbeck	1876726
	03/01/2017			03/01/2017 16:23	Julia Storbeck	1876727
	03/01/2017			03/01/2017 16:24	Julia Storbeck	1876729
	03/01/2017			03/01/2017 17:03	Julia Storbeck	1876730
EPA 8321B	03/01/2017	03/03/2017	Mohammad Ghaffari	03/03/2017	Mohammad Ghaffari	1876740
SM 2120 B	03/01/2017			03/01/2017 18:02	Julie Michelle Frank	1876714
	03/01/2017			03/01/2017 18:03	Julie Michelle Frank	1876716
	03/01/2017			03/01/2017 18:26	Julie Michelle Frank	1876710
	03/01/2017			03/01/2017 18:27	Julie Michelle Frank	1876712
	03/01/2017			03/01/2017 18:28	Julie Michelle Frank	1876715
	03/01/2017			03/01/2017 18:34	Julie Michelle Frank	1876713
	03/01/2017			03/02/2017 16:54	Julie Michelle Frank	1876711
SM 2320 B-97	03/01/2017			03/04/2017	Dale L. Simmons	1876712, 1876713, 1876714
	03/01/2017			03/09/2017	Dale L. Simmons	1876710, 1876711, 1876715, 1876716
SM 2540 C-97	03/01/2017			03/03/2017	Yijie Li	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 2540 D-97	03/01/2017			03/03/2017	Yijie Li	1876710, 1876711, 1876712, 1876713, 1876714, 1876715, 1876716
SM 4500 F-C-97	03/01/2017			03/04/2017	Dale L. Simmons	1876710, 1876711

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	03/01/2017			03/14/2017	Dale L. Simmons	1876712, 1876713, 1876714, 1876715, 1876716
SM 5310 B-00	03/01/2017			03/02/2017	Julie Michelle Frank	1876717
	03/01/2017			03/03/2017	Julie Michelle Frank	1876718, 1876719, 1876720, 1876721, 1876722, 1876723
USGS O-2060-01	03/01/2017	03/06/2017	Hoor Shaik	03/07/2017	Juyoung Kim	1876741