

Chemical Analysis Report

NW-DIST-2016-10-13-02

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

Event Description: **WBID 872A 531 624 291 494 542 478A**

Request ID: **RQ-2016-10-10-52**

Customer: **NW-DIST**

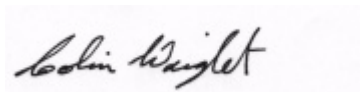
Project ID: **SMP**

Send Reports to:
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160 W Government St
Suite 208A
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Attn: Michael King

For additional information please contact
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Certified by: Colin Wright, Environmental Administrator

Date Certified: 10-NOV-2016 11:20

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: Eight Mile Creek near Bankhead Drive

Collection Date/Time: 10/12/2016 10:25

Field ID: G5NW0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840491	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P313129	
	EPA 300.0 Rev. 2.1	Chloride	7.1		mg Cl/L	P313678	
		Sulfate	2.5		mg SO4/L	P313681	
	SM 2120 B	Color (true)	34		PCU	P313139	
	SM 2320 B-97	Total Alkalinity	18		mg CaCO3/L	P313458	
	SM 2540 C-97	TDS	51		mg/L	P313962	
	SM 2540 D-97	TSS	2	I	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313462	
1840499	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P313913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P313774	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P313381	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	3.1		mg C/L	P313266	
1840507	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313137	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: The result was confirmed on 11/01/2016.

Sample Location: Eight Mile Creek near Bankhead Drive

Collection Date/Time: 10/12/2016 10:30

Field ID: G5NW0056DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840492	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P313129	
	EPA 300.0 Rev. 2.1	Chloride	7.1		mg Cl/L	P313678	
		Sulfate	2.5		mg SO4/L	P313681	
	SM 2120 B	Color (true)	34		PCU	P313139	
	SM 2320 B-97	Total Alkalinity	18		mg CaCO3/L	P313458	
	SM 2540 C-97	TDS	50		mg/L	P313962	
	SM 2540 D-97	TSS	2	U	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313462	
1840500	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P313913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29		mg N/L	P313774	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P313381	
	EPA 365.1 Rev. 2.0	Total-P	0.005	I	mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	3.0		mg C/L	P313266	
1840508	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313137	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: The result was confirmed on 11/01/2016.

Sample Location: Clear Creek @ Tucumseh Trail

Collection Date/Time: 10/12/2016 11:15

Field ID: G4NW0358

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840493	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P313129	

Field ID: G4NW0358

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840493	EPA 300.0 Rev. 2.1	Chloride	8.4	A	mg Cl/L	P313678	
		Sulfate	4.0	A	mg SO4/L	P313681	
	SM 2120 B	Color (true)	21		PCU	P313139	
	SM 2320 B-97	Total Alkalinity	18		mg CaCO3/L	P313458	
	SM 2540 C-97	TDS	47		mg/L	P313962	
	SM 2540 D-97	TSS	2	U	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313462	
1840501	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P313913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.14	I	mg N/L	P313774	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P313381	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	2.8		mg C/L	P313266	
1840509	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313137	

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: Clear Creek @ CR 749 (West Side)

Collection Date/Time: 10/12/2016 11:35

Field ID: G4NW0359

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840494	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P313129	
	EPA 300.0 Rev. 2.1	Chloride	12	A	mg Cl/L	P313272	
		Sulfate	2.3	A	mg SO4/L	P313273	
	SM 2120 B	Color (true)	36	A	PCU	P313139	
	SM 2320 B-97	Total Alkalinity	14		mg CaCO3/L	P313458	
	SM 2540 C-97	TDS	55		mg/L	P313962	
	SM 2540 D-97	TSS	2	I	mg/L	P313783	
1840502	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313462	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P313913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33		mg N/L	P314281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.017		mg N/L	P313381	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P313926	
1840510	SM 5310 B-00	Organic Carbon	5.6		mg C/L	P313266	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313137	

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: Jack's Branch at Jack's Branch Road (Hwy 97)

Collection Date/Time: 10/12/2016 12:15

Field ID: G5NW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840495	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P313129	
	EPA 300.0 Rev. 2.1	Chloride	4.6		mg Cl/L	P313678	
		Sulfate	0.65		mg SO4/L	P313681	
	SM 2120 B	Color (true)	35		PCU	P313139	
	SM 2320 B-97	Total Alkalinity	2.0	I	mg CaCO3/L	P313458	

Field ID: G5NW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840495	SM 2540 C-97	TDS	17	I	mg/L	P313962	
	SM 2540 D-97	TSS	2	U	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313462	
1840503	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P313915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.17	I	mg N/L	P314281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P313381	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	3.0		mg C/L	P313266	
1840511	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313140	

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: Muscogee Creek 200 Meters Below Beulah Rd **Collection Date/Time: 10/12/2016 12:40**

Field ID: G5NW0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840496	EPA 180.1 Rev. 2.0	Turbidity	1.7	A	NTU	P313130	
	EPA 300.0 Rev. 2.1	Chloride	4.9		mg Cl/L	P313678	
		Sulfate	0.84		mg SO4/L	P313681	
	SM 2120 B	Color (true)	43		PCU	P313141	
	SM 2320 B-97	Total Alkalinity	1.2	I	mg CaCO3/L	P313458	
	SM 2540 C-97	TDS	21	I	mg/L	P313962	
	SM 2540 D-97	TSS	2	U	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313462	
1840504	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P313915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P314281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.040		mg N/L	P313381	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P313266	
1840512	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313142	

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: Muscogee Creek **Collection Date/Time: 10/12/2016 12:45**

Field ID: FIELD BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840497	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P313130	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P313678	
		Sulfate	0.20	U	mg SO4/L	P313681	
	SM 2120 B	Color (true)	2.5	U	PCU	P313141	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P313459	
	SM 2540 C-97	TDS	15	U	mg/L	P313962	
	SM 2540 D-97	TSS	2	U	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313463	
1840505	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P313915	

Field ID: FIELD BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840505	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P314281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P313382	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	0.56	I	mg C/L	P313266	
1840513	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313140	

Ref. Method and Comment:

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

SM 5310 B-00: The result was confirmed on 10/17/2016.

Sample Location: Rest Area Run below Beaver Pond Creek

Collection Date/Time: 10/12/2016 13:20

Field ID: G5NW0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1840498	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P313130	
	EPA 300.0 Rev. 2.1	Chloride	7.8	A	mg Cl/L	P313701	
		Sulfate	2.2	A	mg SO4/L	P313703	
	SM 2120 B	Color (true)	26		PCU	P313141	
	SM 2320 B-97	Total Alkalinity	6.0		mg CaCO3/L	P313459	
	SM 2540 C-97	TDS	37		mg/L	P313962	
	SM 2540 D-97	TSS	2	U	mg/L	P313783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P313463	
1840506	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P313915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P314281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.56		mg N/L	P313382	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P313926	
	SM 5310 B-00	Organic Carbon	2.7		mg C/L	P313266	
1840514	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P313140	

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: P313129

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P313130

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P313272

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313273

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313678

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313681

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313701

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313703

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313913

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313915

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313774

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P314281

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313381

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313382

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313926

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313137

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313140

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313142

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

Reference Method: SM 2120 B
Batch ID: P313139

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P313141

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P313458

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P313459

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

Reference Method: SM 2540 C-97
Batch ID: P313962

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P313783

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P313462

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P313463

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P313266

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: P313272

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313273

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313678

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313678

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313681

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313701

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313703

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313913

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313915

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313774

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P314281

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313381

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313382

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: P313926

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313137

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: P313140

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313142

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

Reference Method: SM 2320 B-97
Batch ID: P313458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P313459

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

Reference Method: SM 4500 F-C-97
Batch ID: P313462

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

Reference Method: SM 4500 F-C-97
Batch ID: P313463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P313266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840494	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840494	Sulfate	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840493	Chloride	103		P	90 - 110
1840495	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840493	Sulfate	99.2		P	90 - 110
1840495	Sulfate	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840498	Chloride	104		P	90 - 110
1840860	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313703

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840498	Sulfate	101		P	90 - 110
1840860	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P313913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840417	Ammonia-N	102	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840503	Ammonia-N	103	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840456	Kjeldahl Nitrogen	92.0	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P314281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840502	Kjeldahl Nitrogen	98.9	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840456	NO2NO3-N	94.4	94.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840534	NO2NO3-N	98.9	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313926

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840470	Total-P	97.4	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840471	O-Phosphate-P	99.0	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840511	O-Phosphate-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840512	O-Phosphate-P	101	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P313462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840154	Fluoride	99.5	96.9	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P313463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840531	Fluoride	98.7	101	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P313266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840470	Organic Carbon	93.2	94.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P313129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840432	Turbidity	1.54	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P313130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840496	Turbidity	4.01	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840494	Chloride	0.561	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840494	Sulfate	0.554	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840493	Chloride	0.492	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840493	Sulfate	0.861	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840498	Chloride	0.418	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840498	Sulfate	0.355	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840417	Ammonia-N	0.566	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840503	Ammonia-N	1.54	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840456	Kjeldahl Nitrogen	2.65	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P314281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840502	Kjeldahl Nitrogen	1.44	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840456	NO2NO3-N	0.416	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840534	NO2NO3-N	1.13	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840470	Total-P	4.79	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840471	O-Phosphate-P	0.859	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840511	O-Phosphate-P	0.877	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840512	O-Phosphate-P	1.18	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P313139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840494	Color (true)	6.12	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P313141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840547	Color (true)	0.875	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P313458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840154	Total Alkalinity	2.03	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P313459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840531	Total Alkalinity	0.438	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P313962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840433	TDS	0.930	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P313462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840154	Fluoride	2.45	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P313463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840531	Fluoride	1.43	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P313266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840470	Organic Carbon	0.847	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 300.0 Rev. 2.1
Run ID: A72200
Included Lab Sample IDs: 1840494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.0	99.3	P/P	90 - 110
Sulfate	99.3	99.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A72211
Included Lab Sample IDs: 1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A72211

Included Lab Sample IDs: 1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A72213

Included Lab Sample IDs: 1840507, 1840508, 1840509, 1840510, 1840511, 1840512, 1840513, 1840514

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	101	P/P	90 - 110
O-Phosphate-P	101	101	P/P	90 - 110
O-Phosphate-P	101	103	P/P	90 - 110
O-Phosphate-P	101	100	P/P	90 - 110
O-Phosphate-P	103	101	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A72214

Included Lab Sample IDs: 1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	104	P/P	85 - 115
Color (true)	104	102	P/P	85 - 115

Reference Method: SM 5310 B-00

Run ID: A72250

Included Lab Sample IDs: 1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A72281

Included Lab Sample IDs: 1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	98.5	P/P	90 - 110
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A72305

Included Lab Sample IDs: 1840491, 1840492, 1840493, 1840495, 1840496, 1840497, 1840498

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Chloride	103	103	P/P	90 - 110
Chloride	103	104	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110
Sulfate	98.6	99.5	P/P	90 - 110
Sulfate	99.3	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A72309

Included Lab Sample IDs: 1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	103	P/P	90 - 110
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A72309

Included Lab Sample IDs: 1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A72438

Included Lab Sample IDs: 1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	102	P/P	90 - 110
Ammonia-N	102	100	P/P	90 - 110
Ammonia-N	99.5	99.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72495

Included Lab Sample IDs: 1840499, 1840500, 1840501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	107	P/P	90 - 110
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A72519

Included Lab Sample IDs: 1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110
Total-P	101	100	P/P	90 - 110
Total-P	98.2	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72577

Included Lab Sample IDs: 1840502, 1840503, 1840504, 1840505, 1840506

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	102	P/P	90 - 110
Kjeldahl Nitrogen	102	104	P/P	90 - 110
Kjeldahl Nitrogen	104	103	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		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				1.54	
	Turbidity				4.01	
EPA 300.0 Rev. 2.1	Chloride	98.8	101		0.561	
	Chloride	103	103	104	0.492	
	Chloride	104	104	105	0.418	
	Sulfate	97.4	98.3		0.554	
	Sulfate	99.1	99.2	99.8	0.861	
	Sulfate	100	101	101	0.355	
EPA 350.1 Rev. 2.0	Ammonia-N	105	102	102		0.566
	Ammonia-N	107	103	101		1.54
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	92.0	96.8		2.65
	Kjeldahl Nitrogen	108	98.9	101		1.44
EPA 353.2 Rev. 2.0	NO2NO3-N	102	94.4	94.8		0.416
	NO2NO3-N	102	98.9	97.4		1.13
EPA 365.1 Rev. 2.0	Total-P	98.3	97.4	102		4.79
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	99.0	99.9		0.859
	O-Phosphate-P	103	102	103		0.877
	O-Phosphate-P	100	101	102		1.18
SM 2120 B	Color (true)				6.12	
	Color (true)				0.875	
SM 2320 B-97	Total Alkalinity	103			2.03	
	Total Alkalinity	104			0.438	
SM 2540 C-97	TDS				0.930	
SM 4500 F-C-97	Fluoride	97.3	99.5	96.9		2.45
	Fluoride	98.3	98.7	101		1.43
SM 5310 B-00	Organic Carbon	96.0	93.2	94.3		0.847

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1840507, 1840508, 1840509, 1840510, 1840511, 1840512, 1840513, 1840514
SM 2120 B / E31780	True Color measured at 450 nm	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506

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	10/13/2016			10/13/2016 15:12	Sima Feizi	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
EPA 300.0 Rev. 2.1	10/13/2016			10/15/2016	Julia Storbeck	1840494
	10/13/2016			10/22/2016	Julia Storbeck	1840491, 1840492, 1840493, 1840495, 1840496, 1840497, 1840498
EPA 350.1 Rev. 2.0	10/13/2016			10/25/2016	Sofia Elnemr	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 351.2 Rev. 2.0	10/13/2016	10/25/2016	Adrian Shelby	10/28/2016	Joseph Suarez	1840499, 1840500, 1840501
	10/13/2016	11/01/2016	Adrian Shelby	11/02/2016	Joseph Suarez	1840502, 1840503, 1840504, 1840505, 1840506
EPA 353.2 Rev. 2.0	10/13/2016			10/18/2016	Beverly Y. Sanders	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 365.1 Rev. 2.0	10/13/2016	10/26/2016	Vijayalakshmi Reddy	10/28/2016	Lipi Saha	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506
EPA 365.1 Rev. 2.0 dissolved	10/13/2016			10/13/2016 15:16	Julia Storbeck	1840511
	10/13/2016			10/13/2016 15:24	Julia Storbeck	1840512
	10/13/2016			10/13/2016 15:51	Julia Storbeck	1840507
	10/13/2016			10/13/2016 15:52	Julia Storbeck	1840508
	10/13/2016			10/13/2016 15:54	Julia Storbeck	1840513
	10/13/2016			10/13/2016 15:56	Julia Storbeck	1840509
	10/13/2016			10/13/2016 16:08	Julia Storbeck	1840510
	10/13/2016			10/13/2016 16:19	Julia Storbeck	1840514
SM 2120 B	10/13/2016			10/13/2016 16:00	Jared I. Manley	1840494
	10/13/2016			10/13/2016 16:05	Jared I. Manley	1840491
	10/13/2016			10/13/2016 16:06	Jared I. Manley	1840492
	10/13/2016			10/13/2016 16:07	Jared I. Manley	1840493, 1840495
	10/13/2016			10/13/2016 16:12	Jared I. Manley	1840496
	10/13/2016			10/13/2016 16:13	Jared I. Manley	1840497, 1840498
SM 2320 B-97	10/13/2016			10/19/2016	Dale L. Simmons	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 2540 C-97	10/13/2016			10/17/2016	Sima Feizi	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 2540 D-97	10/13/2016			10/17/2016	Sima Feizi	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 4500 F-C-97	10/13/2016			10/19/2016	Dale L. Simmons	1840491, 1840492, 1840493, 1840494, 1840495, 1840496, 1840497, 1840498
SM 5310 B-00	10/13/2016			10/15/2016	Julie Michelle Frank	1840499, 1840500, 1840501, 1840502, 1840503, 1840504, 1840505, 1840506