

Chemical Analysis Report

SW-DIST-2016-04-14-01

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

Event Description: **1329Z, 1329P, 1392A, 1403**

Request ID: **RQ-2016-04-11-40**

Customer: **SW-DIST**

Project ID: **SMP**

Send Reports to:

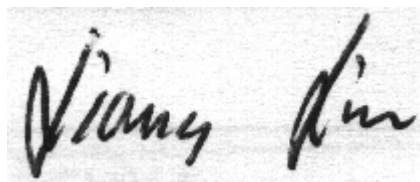
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Stephen Clingerman

For additional information please contact

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 05-MAY-2016 15:12

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Nutrients.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: G5SW0018

Collection Date/Time: 04/13/2016 10:10

Field ID: G5SW0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789284	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P302319	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P302548	
		Sulfate	6.4		mg SO4/L	P302551	
	SM 2120 B	Color (true)	8.8		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	35	A	mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	89	A	mg/L	P303136	
	SM 2540 D-97	TSS	3	I	mg/L	P302913	
	SM 4500 F-C-97	Fluoride	0.10		mg F/L	P302638	
1789294	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P303029	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302707	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P302791	
	SM 5310 B-00	Organic Carbon	6.5		mg C/L	P302855	
1789304	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: G5SW0019

Collection Date/Time: 04/13/2016 10:25

Field ID: G5SW0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789285	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P302319	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P302548	
		Sulfate	6.5		mg SO4/L	P302551	
	SM 2120 B	Color (true)	8.5		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	35		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	87		mg/L	P303136	
	SM 2540 D-97	TSS	2	I	mg/L	P302913	
	SM 4500 F-C-97	Fluoride	0.098	I	mg F/L	P302638	
1789295	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P303029	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302707	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P302791	
	SM 5310 B-00	Organic Carbon	6.2		mg C/L	P302855	
1789305	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: G5SW0090

Collection Date/Time: 04/13/2016 11:40

Field ID: G5SW0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789286	EPA 180.1 Rev. 2.0	Turbidity	7.4		NTU	P302319	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P302548	
		Sulfate	1.5		mg SO4/L	P302551	

Field ID: G5SW0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789286	SM 2120 B	Color (true)	150		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	14		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	71		mg/L	P303136	
	SM 2540 D-97	TSS	7	I	mg/L	P302913	
	SM 4500 F-C-97	Fluoride	0.082	I	mg F/L	P302638	
1789296	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P303029	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P302791	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P302856	
1789306	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: G5SW0089

Collection Date/Time: 04/13/2016 11:50

Field ID: G5SW0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789287	EPA 180.1 Rev. 2.0	Turbidity	6.6	A	NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P302548	
		Sulfate	1.5		mg SO4/L	P302551	
	SM 2120 B	Color (true)	150		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	76		mg/L	P303136	
	SM 2540 D-97	TSS	7	I	mg/L	P302913	
	SM 4500 F-C-97	Fluoride	0.082	I	mg F/L	P302638	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P303029	
1789297	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P302792	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P302856	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: G5SW0088

Collection Date/Time: 04/13/2016 12:05

Field ID: G5SW0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789288	EPA 180.1 Rev. 2.0	Turbidity	6.2		NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P302548	
		Sulfate	1.6		mg SO4/L	P302551	
	SM 2120 B	Color (true)	150		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	14		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	75		mg/L	P303137	
	SM 2540 D-97	TSS	6	I	mg/L	P302914	

Field ID: G5SW0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789288	SM 4500 F-C-97	Fluoride	0.081	I	mg F/L	P302638	
1789298	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P303029	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.067		mg P/L	P302792	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P302856	
1789308	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: G5SW0087

Collection Date/Time: 04/13/2016 12:15

Field ID: G5SW0087

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789289	EPA 180.1 Rev. 2.0	Turbidity	5.5		NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P302548	
		Sulfate	1.6		mg SO4/L	P302551	
	SM 2120 B	Color (true)	150		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	78		mg/L	P303137	
	SM 2540 D-97	TSS	6	I	mg/L	P302914	
	SM 4500 F-C-97	Fluoride	0.082	I	mg F/L	P302638	
1789299	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P303093	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P302792	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P302856	
1789309	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: G5SW0083

Collection Date/Time: 04/13/2016 13:15

Field ID: G5SW0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789290	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P302548	
		Sulfate	4.5		mg SO4/L	P302551	
	SM 2120 B	Color (true)	60	A	PCU	P302291	
	SM 2320 B-97	Total Alkalinity	20		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	73		mg/L	P303137	
	SM 2540 D-97	TSS	2	U	mg/L	P302914	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P302638	
1789300	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P303093	

Field ID: G5SW0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789300	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P302792	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P302856	
1789310	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: G5SW0084

Collection Date/Time: 04/13/2016 13:30

Field ID: G5SW0084

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789291	EPA 180.1 Rev. 2.0	Turbidity	0.75		NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P302548	
		Sulfate	4.5		mg SO4/L	P302551	
	SM 2120 B	Color (true)	60		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	20		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	73		mg/L	P303137	
	SM 2540 D-97	TSS	2	U	mg/L	P302914	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P302638	
1789301	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P303093	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P302792	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P302856	
1789311	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: G5SW0085

Collection Date/Time: 04/13/2016 13:40

Field ID: G5SW0085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789292	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	14	A	mg Cl/L	P302548	
		Sulfate	4.4	A	mg SO4/L	P302551	
	SM 2120 B	Color (true)	60		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	20		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	79		mg/L	P303137	
	SM 2540 D-97	TSS	2	U	mg/L	P302914	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P302638	
1789302	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P303093	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.057		mg P/L	P302792	

Field ID: G5SW0085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789302	SM 5310 B-00	Organic Carbon	10		mg C/L	P302856	
1789312	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P302277	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: G5SW0086

Collection Date/Time: 04/13/2016 13:50

Field ID: G5SW0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789293	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P302320	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P302548	
		Sulfate	4.4		mg SO4/L	P302551	
	SM 2120 B	Color (true)	62		PCU	P302291	
	SM 2320 B-97	Total Alkalinity	20		mg CaCO3/L	P302635	
	SM 2540 C-97	TDS	70	A	mg/L	P303137	
	SM 2540 D-97	TSS	2	U	mg/L	P302914	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P302638	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P303038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P303093	
1789303	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P302708	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P302792	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P302856	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P302278	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P302319

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P302320

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P302548

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: P302551

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303038

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303029

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303093

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302707

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302708

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302277

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302278

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

Reference Method: SM 2120 B
Batch ID: P302291

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P302635

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

Reference Method: SM 2540 C-97
Batch ID: P303136

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P303137

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P302913

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P302914

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P302638

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P302855

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

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P302856

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: P302548

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302551

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303038

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303029

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303093

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302707

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302708

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302277

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: P302278

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

Reference Method: SM 2320 B-97
Batch ID: P302635

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P302638

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P302855

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P302856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302548

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789288	Chloride	100		P	90 - 110
1789292	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302551

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789288	Sulfate	99.4		P	90 - 110
1789292	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789301	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303029

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789271	Kjeldahl Nitrogen	98.7	98.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789269	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789296	NO2NO3-N	96.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789269	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789297	Total-P	102	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302277

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789305	O-Phosphate-P	98.9	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789440	O-Phosphate-P	100	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P302638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789284	Fluoride	96.2	96.9	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P302855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789221	Organic Carbon	104		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P302856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789296	Organic Carbon	92.7	94.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302319

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789261	Turbidity	1.75	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789287	Turbidity	3.33	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789292	Chloride	0.326	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789292	Sulfate	0.0661	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789301	Ammonia-N	1.08	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789271	Kjeldahl Nitrogen	0.142	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789299	Kjeldahl Nitrogen	1.21	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789269	NO2NO3-N	1.13	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789296	NO2NO3-N	2.56	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789269	Total-P	0.796	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789297	Total-P	2.40	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789305	O-Phosphate-P	1.31	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789440	O-Phosphate-P	0.609	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P302291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789290	Color (true)	1.29	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P302635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789284	Total Alkalinity	0.477	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P303136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789284	TDS	4.49	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P303137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789293	TDS	1.44	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P302638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789284	Fluoride	0.539	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P302855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789221	Organic Carbon	0.299	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P302856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789296	Organic Carbon	0.744	Spike	P	0 - 20

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 Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A68887

Included Lab Sample IDs: 1789304, 1789305, 1789306, 1789307, 1789308, 1789309, 1789310, 1789311, 1789312, 1789313

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

Reference Method: SM 2120 B

Run ID: A68890

Included Lab Sample IDs: 1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A68896

Included Lab Sample IDs: 1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A68939

Included Lab Sample IDs: 1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	102	101	P/P	90 - 110
Chloride	99.8	102	P/P	90 - 110
Sulfate	99.5	99.6	P/P	90 - 110
Sulfate	99.6	99.9	P/P	90 - 110
Sulfate	99.9	96.7	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A68993

Included Lab Sample IDs: 1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293

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

Reference Method: SM 4500 F-C-97

Run ID: A68993

Included Lab Sample IDs: 1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A69015

Included Lab Sample IDs: 1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.5	P/P	90 - 110
NO2NO3-N	98.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A69053

Included Lab Sample IDs: 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	106	P/P	90 - 110
Total-P	106	103	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A69060

Included Lab Sample IDs: 1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.5	95.0	P/P	90 - 110
Organic Carbon	94.8	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A69085

Included Lab Sample IDs: 1789294, 1789295

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A69122

Included Lab Sample IDs: 1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	101	P/P	90 - 110
Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A69201

Included Lab Sample IDs: 1789294, 1789295, 1789296, 1789297, 1789298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A69223

Included Lab Sample IDs: 1789299, 1789300, 1789301, 1789302, 1789303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	95.8	P/P	90 - 110
Kjeldahl Nitrogen	95.8	96.2	P/P	90 - 110
Kjeldahl Nitrogen	96.2	95.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

* 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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					1.75	
	Turbidity					3.33	
EPA 300.0 Rev. 2.1	Chloride	102	101	100		0.326	
	Sulfate	101	101	99.4		0.0661	
EPA 350.1 Rev. 2.0	Ammonia-N	101	101	102			1.08
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	98.7	98.9			0.142
	Kjeldahl Nitrogen	98.9					1.21
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	100	102			1.13
	NO ₂ NO ₃ -N	101	96.5	99.0			2.56
EPA 365.1 Rev. 2.0	Total-P	104	102	102			0.796
	Total-P	98.9	102	105			2.40
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	98.9	100			1.31
	O-Phosphate-P	105	100	101			0.609
SM 2120 B	Color (true)					1.29	
SM 2320 B-97	Total Alkalinity	102				0.477	
SM 2540 C-97	TDS					4.49	
	TDS					1.44	
SM 4500 F-C-97	Fluoride	96.5	96.2	96.9			0.539
SM 5310 B-00	Organic Carbon	97.8	104				0.299
	Organic Carbon	96.6	92.7	94.0			0.744

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1789304, 1789305, 1789306, 1789307, 1789308, 1789309, 1789310, 1789311, 1789312, 1789313

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2120 B / E31780	True Color measured at 450 nm	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303

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	04/14/2016			04/14/2016 16:39	Blanca Fach	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
EPA 300.0 Rev. 2.1	04/14/2016			04/20/2016	Julia Storbeck	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
EPA 350.1 Rev. 2.0	04/14/2016			04/26/2016	Diana M. Turner	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
EPA 351.2 Rev. 2.0	04/14/2016	04/27/2016	Sofia Elnemr	04/29/2016	Christopher Armour	1789294, 1789295, 1789296, 1789297, 1789298
	04/14/2016	04/27/2016	Sofia Elnemr	05/02/2016	Christopher Armour	1789299, 1789300, 1789301, 1789302, 1789303
EPA 353.2 Rev. 2.0	04/14/2016			04/21/2016	Peter D. Kaus	1789294, 1789295, 1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
EPA 365.1 Rev. 2.0	04/14/2016	04/22/2016	Lipi Saha	04/22/2016	Lipi Saha	1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303
	04/14/2016	04/22/2016	Lipi Saha	04/25/2016	Lipi Saha	1789294, 1789295
EPA 365.1 Rev. 2.0 dissolved	04/14/2016			04/14/2016 14:20	Julia Storbeck	1789305
	04/14/2016			04/14/2016 15:09	Julia Storbeck	1789304
	04/14/2016			04/14/2016 15:10	Julia Storbeck	1789306
	04/14/2016			04/14/2016 15:11	Julia Storbeck	1789307
	04/14/2016			04/14/2016 15:12	Julia Storbeck	1789308
	04/14/2016			04/14/2016 15:13	Julia Storbeck	1789309
	04/14/2016			04/14/2016 15:14	Julia Storbeck	1789310, 1789311
	04/14/2016			04/14/2016 15:15	Julia Storbeck	1789312
	04/14/2016			04/14/2016 15:16	Julia Storbeck	1789313
	04/14/2016			04/14/2016 16:12	Chrisoulla Rakowski	1789284, 1789285
SM 2120 B	04/14/2016			04/14/2016 16:17	Chrisoulla Rakowski	1789290
	04/14/2016			04/14/2016 16:18	Chrisoulla Rakowski	1789291
	04/14/2016			04/14/2016 16:19	Chrisoulla Rakowski	1789292, 1789293
	04/14/2016			04/14/2016 16:42	Chrisoulla Rakowski	1789286
	04/14/2016			04/14/2016 16:43	Chrisoulla Rakowski	1789287
	04/14/2016			04/14/2016 16:44	Chrisoulla Rakowski	1789288, 1789289
SM 2320 B-97	04/14/2016			04/20/2016	Dale L. Simmons	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 2540 C-97	04/14/2016			04/18/2016	Sima Feizi	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 D-97	04/14/2016			04/18/2016	Sima Feizi	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 4500 F-C-97	04/14/2016			04/20/2016	Dale L. Simmons	1789284, 1789285, 1789286, 1789287, 1789288, 1789289, 1789290, 1789291, 1789292, 1789293
SM 5310 B-00	04/14/2016			04/21/2016	Sofia Elnemr	1789294, 1789295
	04/14/2016			04/22/2016	Sofia Elnemr	1789296, 1789297, 1789298, 1789299, 1789300, 1789301, 1789302, 1789303