

Chemical Analysis Report

SE-DIST-2017-01-27-01

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

Event Description: **SMP- North group 5 run (1/5)**

Request ID: **RQ-2017-01-23-14**

Customer: **SE-DIST**

Project ID: **SMP**

Send Reports to:

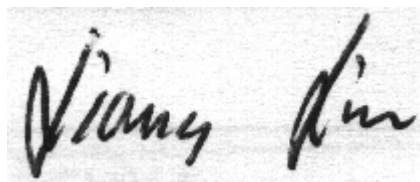
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

For additional information please contact

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

Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-FEB-2017 16:32

A handwritten signature in black ink, appearing to read "Liang Lin", 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 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: South Relief Canal @ US 1

Collection Date/Time: 01/26/2017 10:40

Field ID: G5SE0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867296	EPA 180.1 Rev. 2.0	Turbidity	5.1		NTU	P318889	
	EPA 300.0 Rev. 2.1	Chloride	470		mg Cl/L	P319228	
		Sulfate	110		mg SO4/L	P319231	
	SM 2120 B	Color (true)	42		PCU	P318901	
	SM 2320 B-97	Total Alkalinity	222		mg CaCO3/L	P319065	
	SM 2540 C-97	TDS	1.05E+03		mg/L	P319657	
	SM 2540 D-97	TSS	6	I	mg/L	P319120	
	SM 4500 F-C-97	Fluoride	0.68		mg F/L	P319068	
1867302	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P319037	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P319027	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P319084	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P318965	
	SM 5310 B-00	Organic Carbon	9.6		mg C/L	P318928	
1867308	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.043		mg P/L	P318895	

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: South Relief Canal @ US 1

Collection Date/Time: 01/26/2017 10:40

Field ID: G5SE0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867345	EPA 8321B	Sucralose**	1.6		ug/L	P319087	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P318793	
		Fenuron	0.0080	U	ug/L	P318793	
		Imidacloprid	0.0040	U	ug/L	P318793	
		Linuron	0.0040	U	ug/L	P318793	
		Acetaminophen**	0.0040	U	ug/L	P318793	
		Carbamazepine**	0.0023		ug/L	P318793	
		Primidone**	0.0095	I	ug/L	P318793	
		Fluridone**	0.0033		ug/L	P318793	

Sample Location: Main Canal @ US 1

Collection Date/Time: 01/26/2017 11:10

Field ID: G5SE0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867297	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P318889	
	EPA 300.0 Rev. 2.1	Chloride	400		mg Cl/L	P319228	
		Sulfate	87		mg SO4/L	P319231	
	SM 2120 B	Color (true)	34		PCU	P318901	
	SM 2320 B-97	Total Alkalinity	196		mg CaCO3/L	P319065	
	SM 2540 C-97	TDS	962		mg/L	P319657	
	SM 2540 D-97	TSS	5	I	mg/L	P319120	
	SM 4500 F-C-97	Fluoride	0.44		mg F/L	P319068	
1867303	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P319037	

Field ID: G5SE0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867303	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P319027	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P319084	
	EPA 365.1 Rev. 2.0	Total-P	0.095		mg P/L	P318966	
	SM 5310 B-00	Organic Carbon	9.4		mg C/L	P318928	
1867309	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.043		mg P/L	P318895	

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: Main Canal @ US 1

Collection Date/Time: 01/26/2017 11:10

Field ID: G5SE0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867346	EPA 8321B	Sucralose**	0.90		ug/L	P319087	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P318793	
		Fenuron	0.0080	U	ug/L	P318793	
		Imidacloprid	0.0040	U	ug/L	P318793	
		Linuron	0.0040	U	ug/L	P318793	
		Acetaminophen**	0.0040	U	ug/L	P318793	
		Carbamazepine**	0.0014	I	ug/L	P318793	
		Primidone**	0.0080	U	ug/L	P318793	
		Fluridone**	0.0021		ug/L	P318793	

Sample Location: North Canal below Weir

Collection Date/Time: 01/26/2017 11:45

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867298	EPA 180.1 Rev. 2.0	Turbidity	7.4		NTU	P318889	
	EPA 300.0 Rev. 2.1	Chloride	200		mg Cl/L	P319228	
		Sulfate	60		mg SO4/L	P319231	
		Color (true)	58		PCU	P318901	
	SM 2320 B-97	Total Alkalinity	164		mg CaCO3/L	P319065	
	SM 2540 C-97	TDS	573		mg/L	P319657	
	SM 2540 D-97	TSS	9	I	mg/L	P319120	
	SM 4500 F-C-97	Fluoride	0.32		mg F/L	P319068	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P319037	
		Kjeldahl Nitrogen	0.91		mg N/L	P319027	
1867304	EPA 353.2 Rev. 2.0	NO2NO3-N	0.40		mg N/L	P319084	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P318962	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P318928	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.085		mg P/L	P318895	

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: Kid Creek @ Old Dixie

Collection Date/Time: 01/26/2017 12:30

Field ID: G5SE0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867299	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P318890	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P319228	
		Sulfate	15		mg SO4/L	P319231	
	SM 2120 B	Color (true)	35	A	PCU	P318902	
	SM 2320 B-97	Total Alkalinity	86		mg CaCO3/L	P319065	
	SM 2540 C-97	TDS	324		mg/L	P319657	
	SM 2540 D-97	TSS	2	U	mg/L	P319120	
	SM 4500 F-C-97	Fluoride	0.053	I	mg F/L	P319068	
1867305	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P319037	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P319027	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.049		mg N/L	P319084	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P318966	
	SM 5310 B-00	Organic Carbon	7.2		mg C/L	P318928	
1867311	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.020		mg P/L	P318895	

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: Micco Ditch @ Micco Road

Collection Date/Time: 01/26/2017 13:00

Field ID: G5SE0048

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867300	EPA 180.1 Rev. 2.0	Turbidity	2.9	A	NTU	P318890	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P319229	
		Sulfate	48		mg SO4/L	P319232	
	SM 2120 B	Color (true)	55		PCU	P318902	
	SM 2320 B-97	Total Alkalinity	235		mg CaCO3/L	P319066	
	SM 2540 C-97	TDS	537		mg/L	P319658	
	SM 2540 D-97	TSS	2	I	mg/L	P319120	
	SM 4500 F-C-97	Fluoride	0.24		mg F/L	P319069	
1867306	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P319040	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P319028	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P319084	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P318966	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P318928	
1867312	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.023		mg P/L	P318895	

Ref. Method and Comment:

SM 2540 D-97: 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: C - 54 W of I - 95

Collection Date/Time: 01/26/2017 13:40

Field ID: G5SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867301	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P318890	
	EPA 300.0 Rev. 2.1	Chloride	84		mg Cl/L	P319229	
		Sulfate	24		mg SO4/L	P319232	

Field ID: G5SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1867301	SM 2120 B	Color (true)	75		PCU	P318902	
	SM 2320 B-97	Total Alkalinity	146		mg CaCO3/L	P319066	
	SM 2540 C-97	TDS	348		mg/L	P319658	
	SM 2540 D-97	TSS	2	U	mg/L	P319120	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P319069	
1867307	EPA 350.1 Rev. 2.0	Ammonia-N	0.037		mg N/L	P319040	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P319028	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P319084	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P318963	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P318928	
1867313	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P318895	

Ref. Method and Comment:

SM 2540 D-97: 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.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P318889

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P318890

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P319228

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P319229

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P319231

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P319232

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319037

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319040

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319027

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319028

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319084

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318962

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318963

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318965

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318966

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318895

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

Reference Method: EPA 8321B
Batch ID: P319087

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P318901

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P318902

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P319065

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

Reference Method: SM 2320 B-97
Batch ID: P319066

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

Reference Method: SM 2540 C-97
Batch ID: P319657

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P319658

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P319120

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P319068

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P319069

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P318928

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

Reference Method: USGS O-2060-01
Batch ID: P318793

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: P319228

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319229

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319231

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.4		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319232

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319037

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	106		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319027

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319028

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319084

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318965

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P318966

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P318895

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

Reference Method: EPA 8321B

Batch ID: P319087

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	85.2		P	40 - 140

Reference Method: SM 2320 B-97

Batch ID: P319065

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

Reference Method: SM 2320 B-97

Batch ID: P319066

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

Reference Method: SM 4500 F-C-97

Batch ID: P319068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	92 - 103

Reference Method: SM 4500 F-C-97

Batch ID: P319069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	92 - 103

Reference Method: SM 5310 B-00

Batch ID: P318928

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.8		P	85 - 115

Reference Method: USGS O-2060-01

Batch ID: P318793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	78.8		P	40 - 140
Carbamazepine	94.8		P	40 - 140
Diuron	88.4		P	40 - 140
Fenuron	92.4		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P318793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	70.0		P	40 - 140
Imidacloprid	94.0		P	40 - 160
Linuron	74.4		P	40 - 140
Primidone	70.8		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319228

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867267	Chloride	102		P	90 - 110
1867317	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867318	Chloride	102		P	90 - 110
1867385	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867267	Sulfate	96.1		P	90 - 110
1867317	Sulfate	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867318	Sulfate	96.7		P	90 - 110
1867385	Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867270	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867303	Kjeldahl Nitrogen	103	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867306	Kjeldahl Nitrogen	97.0	96.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319084

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867306	NO2NO3-N	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867304	Total-P	96.2	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867307	Total-P	94.3	93.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867271	Total-P	103	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867321	Total-P	104	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867369	O-Phosphate-P	100	102	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P319087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1868580	Sucralose	105	112	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P319068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867411	Fluoride	99.7	100	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P319069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867318	Fluoride	99.8	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P318928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867302	Organic Carbon	96.4	96.6	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P318793

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866907	Acetaminophen	72.4	74.4	P/P	40 - 140
1866907	Carbamazepine	99.3	103	P/P	40 - 140
1866907	Diuron	70.8	72.4	P/P	40 - 140
1866907	Fenuron	83.6	86.4	P/P	40 - 140
1866907	Fluridone	50.8	54.8	P/P	40 - 140
1866907	Imidacloprid	130	113	P/P	40 - 160
1866907	Linuron	80.4	73.6	P/P	40 - 140
1866907	Primidone	100	94.0	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P318889

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867261	Turbidity	2.84	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P318890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867300	Turbidity	3.06	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319228

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867317	Chloride	0.393	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867318	Chloride	0.153	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867317	Sulfate	0.402	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867318	Sulfate	0.217	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867270	Ammonia-N	0.347	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867319	Ammonia-N	0.330	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867303	Kjeldahl Nitrogen	0.0791	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P319028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867306	Kjeldahl Nitrogen	0.361	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867306	NO2NO3-N	1.10	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867304	Total-P	0.241	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867307	Total-P	1.06	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867271	Total-P	4.17	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867321	Total-P	4.67	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867369	O-Phosphate-P	1.59	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P319087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1868580	Sucralose	6.45	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P318901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867264	Color (true)	0.663	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P318902

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867299	Color (true)	0.196	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P319065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867411	Total Alkalinity	0.500	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P319066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867318	Total Alkalinity	0.409	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P319657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867264	TDS	0.490	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P319658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867373	TDS	1.16	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P319068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867411	Fluoride	0.516	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P319069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867318	Fluoride	0.477	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P318928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867302	Organic Carbon	0.173	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P318793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866907	Acetaminophen	2.72	Spike	P	0 - 30
1866907	Carbamazepine	3.86	Spike	P	0 - 30
1866907	Diuron	1.79	Spike	P	0 - 30
1866907	Fenuron	3.29	Spike	P	0 - 30
1866907	Fluridone	7.30	Spike	P	0 - 30
1866907	Imidacloprid	12.9	Spike	P	0 - 30
1866907	Linuron	8.83	Spike	P	0 - 30
1866907	Primidone	6.58	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: 1867345
Field Sample ID: G5SE0044

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	106	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	64.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	88.6	P	40 - 160
USGS O-2060-01	Diuron-d6	57.2	P	40 - 150
USGS O-2060-01	Primidone-d5	94.4	P	40 - 150

Lab Sample ID: 1867346
Field Sample ID: G5SE0045

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	106	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	92.2	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	102	P	40 - 160
USGS O-2060-01	Diuron-d6	68.6	P	40 - 150
USGS O-2060-01	Primidone-d5	83.6	P	40 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A74149
Included Lab Sample IDs: 1867296, 1867297, 1867298, 1867299, 1867300, 1867301

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A74151
Included Lab Sample IDs: 1867308, 1867309, 1867310, 1867311, 1867312, 1867313

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

Reference Method: SM 2120 B
Run ID: A74154
Included Lab Sample IDs: 1867296, 1867297, 1867298, 1867299, 1867300, 1867301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115
Color (true)	99.3	101	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A74160

Included Lab Sample IDs: 1867302, 1867303, 1867304, 1867305, 1867306, 1867307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	98.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74202

Included Lab Sample IDs: 1867302, 1867303, 1867304, 1867305, 1867306, 1867307

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74203

Included Lab Sample IDs: 1867302, 1867303, 1867304, 1867307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110
Total-P	102	104	P/P	90 - 110
Total-P	104	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74206

Included Lab Sample IDs: 1867296, 1867297, 1867298, 1867299, 1867300, 1867301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Chloride	101	101	P/P	90 - 110
Sulfate	92.2	96.6	P/P	90 - 110
Sulfate	96.6	91.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A74207

Included Lab Sample IDs: 1867296, 1867297, 1867298, 1867299, 1867300, 1867301

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

Reference Method: SM 4500 F-C-97

Run ID: A74207

Included Lab Sample IDs: 1867296, 1867297, 1867298, 1867299, 1867300, 1867301

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74209

Included Lab Sample IDs: 1867302, 1867303, 1867304, 1867305, 1867306, 1867307

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74211

Included Lab Sample IDs: 1867305, 1867306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74218

Included Lab Sample IDs: 1867306, 1867307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	101	P/P	90 - 110
Kjeldahl Nitrogen	103	103	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A74237

Included Lab Sample IDs: 1867345, 1867346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	101	112	P/P	60 - 150
Acetaminophen	112	123	P/P	60 - 150
Carbamazepine	115	127	P/P	60 - 150
Carbamazepine	120	115	P/P	60 - 150
Diuron	118	109	P/P	60 - 150
Diuron	118	118	P/P	60 - 150
Fenuron	112	126	P/P	60 - 150
Fenuron	118	112	P/P	60 - 150
Fluridone	107	92.8	P/P	60 - 150
Fluridone	95.6	107	P/P	60 - 150
Imidacloprid	102	84.4	P/P	60 - 150
Imidacloprid	84.4	110	P/P	60 - 150
Linuron	102	111	P/P	60 - 150
Linuron	111	116	P/P	60 - 150
Primidone	119	121	P/P	60 - 150
Primidone	121	102	P/P	60 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74238

Included Lab Sample IDs: 1867302, 1867303, 1867304, 1867305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	105	P/P	90 - 110
Kjeldahl Nitrogen	108	110	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A74240

Included Lab Sample IDs: 1867345, 1867346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	97.7	129	P/P	60 - 150

* 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				2.84	
	Turbidity				3.06	
EPA 300.0 Rev. 2.1	Chloride	102	102	102	0.393	
	Chloride	103	102	103	0.153	
	Sulfate	96.4	98.1	96.1	0.402	
	Sulfate	97.9	96.7	97.0	0.217	
EPA 350.1 Rev. 2.0	Ammonia-N	107	101	102		0.347
	Ammonia-N	106				0.330
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	103	103		0.0791
	Kjeldahl Nitrogen	99.7	97.0	96.4		0.361
EPA 353.2 Rev. 2.0	NO2NO3-N	106	106	104		1.10
EPA 365.1 Rev. 2.0	Total-P	97.0	96.2	96.5		0.241
	Total-P	97.3	94.3	93.2		1.06
	Total-P	99.0	103	98.4		4.17
	Total-P	96.5	104	98.8		4.67
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	100	102		1.59
EPA 8321B	Sucralose	85.2	105	112		6.45
SM 2120 B	Color (true)				0.663	
	Color (true)				0.196	
SM 2320 B-97	Total Alkalinity	103			0.500	
	Total Alkalinity	104			0.409	
SM 2540 C-97	TDS				0.490	
	TDS				1.16	
SM 4500 F-C-97	Fluoride	98.0	99.7	100		0.516
	Fluoride	98.0	99.8	100		0.477
SM 5310 B-00	Organic Carbon	93.8	96.4	96.6		0.173
USGS O-2060-01	Acetaminophen	78.8	72.4	74.4		2.72
	Carbamazepine	94.8	99.3	103		3.86
	Diuron	88.4	70.8	72.4		1.79
	Fenuron	92.4	83.6	86.4		3.29
	Fluridone	70.0	50.8	54.8		7.30
	Imidacloprid	94.0	130	113		12.9
	Linuron	74.4	80.4	73.6		8.83
	Primidone	70.8	100	94.0		6.58

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1867308, 1867309, 1867310, 1867311, 1867312, 1867313
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1867345, 1867346

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2120 B / E31780	True Color measured at 450 nm	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1867345, 1867346

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	01/27/2017			01/27/2017 15:27	Sima Feizi	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
EPA 300.0 Rev. 2.1	01/27/2017			02/02/2017	Ping Hua	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
EPA 350.1 Rev. 2.0	01/27/2017			01/31/2017	Sofia Elnemr	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
EPA 351.2 Rev. 2.0	01/27/2017	02/01/2017	Adrian Shelby	02/01/2017	Joseph Suarez	1867306, 1867307
	01/27/2017	02/01/2017	Adrian Shelby	02/02/2017	Joseph Suarez	1867302, 1867303, 1867304, 1867305
EPA 353.2 Rev. 2.0	01/27/2017			02/01/2017	Beverly Y. Sanders	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
EPA 365.1 Rev. 2.0	01/27/2017	01/31/2017	Adrian Shelby	01/31/2017	Lipi Saha	1867302, 1867303, 1867304, 1867307
	01/27/2017	01/31/2017	Adrian Shelby	02/01/2017	Lipi Saha	1867305, 1867306
EPA 365.1 Rev. 2.0 dissolved	01/27/2017			01/27/2017 15:35	Julie Michelle Frank	1867310
	01/27/2017			01/27/2017 15:48	Julie Michelle Frank	1867308
	01/27/2017			01/27/2017 15:49	Julie Michelle Frank	1867309
	01/27/2017			01/27/2017 15:50	Julie Michelle Frank	1867311
	01/27/2017			01/27/2017 15:51	Julie Michelle Frank	1867312
	01/27/2017			01/27/2017 15:56	Julie Michelle Frank	1867313
EPA 8321B	01/27/2017	02/02/2017	Mohammad Ghaffari	02/02/2017	Mohammad Ghaffari	1867345, 1867346
SM 2120 B	01/27/2017			01/27/2017 16:18	Jared I. Manley	1867296, 1867297
	01/27/2017			01/27/2017 16:19	Jared I. Manley	1867298
	01/27/2017			01/27/2017 16:23	Jared I. Manley	1867299
	01/27/2017			01/27/2017 16:24	Jared I. Manley	1867300
	01/27/2017			01/27/2017 16:25	Jared I. Manley	1867301
SM 2320 B-97	01/27/2017			02/01/2017	Dale L. Simmons	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 2540 C-97	01/27/2017			02/01/2017	Blanca Fach	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 2540 D-97	01/27/2017			01/30/2017	Christopher Armour	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 4500 F-C-97	01/27/2017			02/01/2017	Dale L. Simmons	1867296, 1867297, 1867298, 1867299, 1867300, 1867301
SM 5310 B-00	01/27/2017			01/28/2017	Julie Michelle Frank	1867302, 1867303, 1867304, 1867305, 1867306, 1867307
USGS O-2060-01	01/27/2017	02/01/2017	Hoor Shaik	02/02/2017	Juyoung Kim	1867345, 1867346