

Chemical Analysis Report

SE-DIST-2017-02-23-01

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

Event Description: **SMP-G5 North Run (2/5)**

Request ID: **RQ-2017-02-20-13**

Customer: **SE-DIST**

Project ID: **SMP**

Send Reports to:

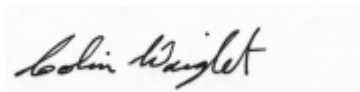
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

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: Colin Wright, Program Administrator

Date Certified: 20-MAR-2017 14:14



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: 02/22/2017 10:30

Field ID: G5SE0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875101	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P320426	
	EPA 300.0 Rev. 2.1	Chloride	460		mg Cl/L	P321442	
		Sulfate	110		mg SO4/L	P321445	
	SM 2120 B	Color (true)	40	A	PCU	P320415	
	SM 2320 B-97	Total Alkalinity	220		mg CaCO3/L	P320704	
	SM 2540 C-97	TDS	1.09E+03		mg/L	P321109	
	SM 2540 D-97	TSS	6	I	mg/L	P320938	
	SM 4500 F-C-97	Fluoride	0.67		mg F/L	P320894	
1875103	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P320520	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P320509	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.065		mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P320547	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P320511	
1875105	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.047		mg P/L	P320406	
1875132	EPA 8321B	Sucralose**	1.7		ug/L	P320379	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P320378	MS
		Fenuron	0.0080	U	ug/L	P320378	
		Imidacloprid	0.0040	U	ug/L	P320378	
		Linuron	0.0040	U	ug/L	P320378	
		Acetaminophen**	0.0040	U	ug/L	P320378	
		Carbamazepine**	0.0023		ug/L	P320378	
		Primidone**	0.0080	U	ug/L	P320378	
		Fluridone**	0.0024		ug/L	P320378	MS

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: 02/22/2017 11:30

Field ID: G5SE0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875102	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P320426	
	EPA 300.0 Rev. 2.1	Chloride	320		mg Cl/L	P321343	
		Sulfate	73		mg SO4/L	P321345	
	SM 2120 B	Color (true)	40		PCU	P320417	
	SM 2320 B-97	Total Alkalinity	173		mg CaCO3/L	P320704	
	SM 2540 C-97	TDS	818		mg/L	P321109	
	SM 2540 D-97	TSS	11		mg/L	P320938	
	SM 4500 F-C-97	Fluoride	0.39		mg F/L	P320894	
1875104	EPA 350.1 Rev. 2.0	Ammonia-N	0.095		mg N/L	P320520	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P320509	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P320547	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P320511	
1875106	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.054		mg P/L	P320406	

Field ID: G5SE0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875133	EPA 8321B	Sucralose**	0.75		ug/L	P320379	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P320378	MS
		Fenuron	0.0080	U	ug/L	P320378	
		Imidacloprid	0.0040	U	ug/L	P320378	
		Linuron	0.0040	U	ug/L	P320378	
		Acetaminophen**	0.0087	I	ug/L	P320378	
		Carbamazepine**	6.1E-04	I	ug/L	P320378	
		Primidone**	0.0080	U	ug/L	P320378	
		Fluridone**	0.0016	I	ug/L	P320378	MS

Ref. Method and Comment:

SM 2120 B: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Sample Location: North Canal below weir

Collection Date/Time: 02/22/2017 11:50

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875095	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P320425	
	EPA 300.0 Rev. 2.1	Chloride	190		mg Cl/L	P321442	
		Sulfate	57		mg SO4/L	P321445	
	SM 2120 B	Color (true)	59		PCU	P320415	
	SM 2320 B-97	Total Alkalinity	160		mg CaCO3/L	P320703	
	SM 2540 C-97	TDS	556		mg/L	P321109	
	SM 2540 D-97	TSS	6	I	mg/L	P320938	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P320895	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P320520	
1875097	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P320631	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P320547	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P320511	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.089		mg P/L	P320406	

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: 02/22/2017 12:35

Field ID: G5SE0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875096	EPA 180.1 Rev. 2.0	Turbidity	20		NTU	P320426	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P321442	
		Sulfate	21		mg SO4/L	P321445	
	SM 2120 B	Color (true)	60		PCU	P320415	
	SM 2320 B-97	Total Alkalinity	75		mg CaCO3/L	P320704	
	SM 2540 C-97	TDS	324		mg/L	P321109	
	SM 2540 D-97	TSS	4	I	mg/L	P320938	
	SM 4500 F-C-97	Fluoride	0.048	I	mg F/L	P320894	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P320520	

Field ID: G5SE0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875098	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P320509	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.066		mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P320547	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P320511	
1875100	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.036		mg P/L	P320406	

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 Rd

Collection Date/Time: 02/22/2017 13:00

Field ID: G5SE0048

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875086	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P320425	
	EPA 300.0 Rev. 2.1	Chloride	71		mg Cl/L	P321442	
		Sulfate	20		mg SO4/L	P321445	
		Color (true)	48		PCU	P320415	
	SM 2120 B	Total Alkalinity	88		mg CaCO3/L	P320703	
	SM 2320 B-97	TDS	258	A	mg/L	P321108	
	SM 2540 C-97	TSS	8	I	mg/L	P320937	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P320895	
1875089	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P320520	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P320631	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P320474	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P320511	
1875092	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.027		mg P/L	P320406	

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: C-54 W of I-95

Collection Date/Time: 02/22/2017 14:10

Field ID: G5SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875087	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P320425	
	EPA 300.0 Rev. 2.1	Chloride	92		mg Cl/L	P321442	
		Sulfate	26		mg SO4/L	P321445	
		Color (true)	62		PCU	P320415	
	SM 2120 B	Total Alkalinity	152		mg CaCO3/L	P320703	
	SM 2320 B-97	TDS	371		mg/L	P321108	
	SM 2540 C-97	TSS	3	I	mg/L	P320937	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P320895	
1875090	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P320520	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P320631	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P320547	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P320511	

Field ID: G5SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875093	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P320406	

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: C-54 1700m West of I-95

Collection Date/Time: 02/22/2017 14:25

Field ID: G5SE0060

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1875088	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P320425	
	EPA 300.0 Rev. 2.1	Chloride	94		mg Cl/L	P321442	
		Sulfate	27		mg SO4/L	P321445	
	SM 2120 B	Color (true)	62		PCU	P320415	
	SM 2320 B-97	Total Alkalinity	154		mg CaCO3/L	P320703	
	SM 2540 C-97	TDS	379		mg/L	P321108	
	SM 2540 D-97	TSS	4	I	mg/L	P320937	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P320895	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P320520	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P320631	
1875091	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P320686	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P320547	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P320511	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P320406	

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: P320425

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P320426

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P321343

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P321345

Component	Result	Code	Units
-----------	--------	------	-------

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321345

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321442

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321445

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320520

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320509

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320631

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320686

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320474

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320547

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: P320406

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

Reference Method: EPA 8321B
Batch ID: P320379

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P320415

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P320417

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P320703

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

Reference Method: SM 2320 B-97
Batch ID: P320704

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

Reference Method: SM 2540 C-97
Batch ID: P321108

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P321109

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P320937

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P320938

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P320894

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P320895

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P320511

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

Reference Method: USGS O-2060-01
Batch ID: P320378

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: P321343

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: P321345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	92.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321442

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321445

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320509

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320631

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320686

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: P320474

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320547

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320406

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
 Batch ID: P320379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	81.5		P	40 - 140

Reference Method: SM 2320 B-97
 Batch ID: P320703

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

Reference Method: SM 2320 B-97
 Batch ID: P320704

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

Reference Method: SM 4500 F-C-97
 Batch ID: P320894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.0		P	92 - 103

Reference Method: SM 4500 F-C-97
 Batch ID: P320895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.0		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P320511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P320378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	69.6		P	40 - 140
Carbamazepine	96.8		P	40 - 140
Diuron	80.4		P	40 - 140
Fenuron	83.2		P	40 - 140
Fluridone	76.8		P	40 - 140
Imidacloprid	77.2		P	40 - 160
Linuron	78.8		P	40 - 140
Primidone	93.6		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1874535	Chloride	97.0		P	90 - 110
1875342	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1874535	Sulfate	95.9		P	90 - 110
1875342	Sulfate	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875018	Chloride	100		P	90 - 110
1875042	Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875018	Sulfate	101		P	90 - 110
1875042	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875061	Ammonia-N	94.0	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320509

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875345	Kjeldahl Nitrogen	106	110	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875045	Kjeldahl Nitrogen	101	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875090	NO2NO3-N	104	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
---------------	-----------	---------	---------	-----------	----------------

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875036	Total-P	101	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875091	Total-P	94.6	96.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875063	O-Phosphate-P	96.6	97.9	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P320379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875132	Sucralose	95.0	103	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P320894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1872795	Fluoride	97.8	100	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P320895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875369	Fluoride	97.0	98.9	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P320511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875110	Organic Carbon	93.1	94.6	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P320378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875966	Acetaminophen	66.0	53.6	P/P	40 - 140
1875966	Carbamazepine	51.0	55.8	P/P	40 - 140
1875966	Diuron	40.8	36.8	P/F	40 - 140
1875966	Fenuron	45.6	47.6	P/P	40 - 140
1875966	Fluridone	37.7	44.0	F/P	40 - 140
1875966	Imidacloprid	86.7	107	P/P	40 - 160
1875966	Linuron	59.6	63.6	P/P	40 - 140
1875966	Primidone	59.2	68.0	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875042	Turbidity	9.17	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875034	Turbidity	1.54	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1874535	Chloride	0.0572	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1874535	Sulfate	4.22	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875018	Chloride	0.0271	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875018	Sulfate	0.412	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875061	Ammonia-N	8.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875345	Kjeldahl Nitrogen	2.55	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875045	Kjeldahl Nitrogen	4.25	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875090	NO2NO3-N	3.31	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875036	Total-P	1.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875091	Total-P	1.98	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875063	O-Phosphate-P	1.34	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P320379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875132	Sucralose	3.21	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P320415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875101	Color (true)	0.362	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P320703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875369	Total Alkalinity	0.108	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P320704

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875611	Total Alkalinity	0.447	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P321108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875086	TDS	0.387	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P321109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875341	TDS	2.08	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P320894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872795	Fluoride	1.42	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P320895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875369	Fluoride	1.57	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P320511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875110	Organic Carbon	1.48	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P320378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875966	Acetaminophen	20.7	Spike	P	0 - 30
1875966	Carbamazepine	8.82	Spike	P	0 - 30
1875966	Diuron	10.2	Spike	P	0 - 30
1875966	Fenuron	4.29	Spike	P	0 - 30
1875966	Fluridone	15.3	Spike	P	0 - 30
1875966	Imidacloprid	20.0	Spike	P	0 - 30
1875966	Linuron	6.49	Spike	P	0 - 30
1875966	Primidone	13.8	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: 1875132
Field Sample ID: G5SE0044

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	115	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	74.0	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	64.8	P	40 - 160
USGS O-2060-01	Diuron-d6	49.4	P	40 - 150
USGS O-2060-01	Primidone-d5	50.8	P	40 - 150

Lab Sample ID: 1875133
Field Sample ID: G5SE0045

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	97.0	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	69.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	55.2	P	40 - 160
USGS O-2060-01	Diuron-d6	41.8	P	40 - 150
USGS O-2060-01	Primidone-d5	71.2	P	40 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A74685
Included Lab Sample IDs: 1875092, 1875093, 1875094, 1875099, 1875100, 1875105, 1875106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.8	P/P	90 - 110
O-Phosphate-P	101	100	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A74691
Included Lab Sample IDs: 1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.7	96.8	P/P	85 - 115
Color (true)	98.0	96.6	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A74692
Included Lab Sample IDs: 1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A74725

Included Lab Sample IDs: 1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.5	96.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74728

Included Lab Sample IDs: 1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	99.4	P/P	90 - 110
Ammonia-N	99.4	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A74729

Included Lab Sample IDs: 1875132, 1875133

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	113	79.2	P/P	60 - 150
Sucralose	79.2	123	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74740

Included Lab Sample IDs: 1875089

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74762

Included Lab Sample IDs: 1875089, 1875090, 1875091, 1875097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.5	P/P	90 - 110
Kjeldahl Nitrogen	99.9	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74766

Included Lab Sample IDs: 1875097, 1875098, 1875103, 1875104

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74773

Included Lab Sample IDs: 1875090, 1875091

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74774

Included Lab Sample IDs: 1875098, 1875103, 1875104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74784

Included Lab Sample IDs: 1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A74795

Included Lab Sample IDs: 1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	104	P/P	90 - 110
Total Alkalinity	104	102	P/P	90 - 110
Total Alkalinity	107	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A74865

Included Lab Sample IDs: 1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.9	99.5	P/P	90 - 110
Fluoride	99.5	99.5	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A74876

Included Lab Sample IDs: 1875132, 1875133

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	122	131	P/P	60 - 150
Carbamazepine	120	126	P/P	60 - 150
Diuron	113	115	P/P	60 - 150
Fenuron	104	108	P/P	60 - 150
Fluridone	96.8	104	P/P	60 - 150
Imidacloprid	105	100	P/P	60 - 150
Linuron	124	98.4	P/P	60 - 150
Primidone	124	128	P/P	60 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74977

Included Lab Sample IDs: 1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	101	P/P	90 - 110
Chloride	103	101	P/P	90 - 110
Sulfate	92.4	97.4	P/P	90 - 110
Sulfate	92.6	99.4	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					9.17	
	Turbidity					1.54	
EPA 300.0 Rev. 2.1	Chloride	98.8	97.0	98.8		0.0572	
	Chloride	100	100	98.3		0.0271	
	Sulfate	92.7	95.9	96.6		4.22	
	Sulfate	100	101	97.5		0.412	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	94.0	104			8.96
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	106	110			2.55
	Kjeldahl Nitrogen	104	101	107			4.25
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	104	108			3.31
EPA 365.1 Rev. 2.0	Total-P	96.5	101	99.2			1.52
	Total-P	96.9	94.6	96.7			1.98
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	96.6	97.9			1.34
EPA 8321B	Sucralose	81.5	95.0	103			3.21
SM 2120 B	Color (true)					0.362	
SM 2320 B-97	Total Alkalinity	103				0.108	
	Total Alkalinity	104				0.447	
SM 2540 C-97	TDS					0.387	
	TDS					2.08	
SM 4500 F-C-97	Fluoride	97.0	97.8	100			1.42
	Fluoride	97.0	97.0	98.9			1.57
SM 5310 B-00	Organic Carbon	96.8	93.1	94.6			1.48
USGS O-2060-01	Acetaminophen	69.6	66.0	53.6			20.7
	Carbamazepine	96.8	51.0	55.8			8.82
	Diuron	80.4	40.8	36.8			10.2
	Fenuron	83.2	45.6	47.6			4.29
	Fluridone	76.8	37.7	44.0			15.3
	Imidacloprid	77.2	86.7	107			20.0
	Linuron	78.8	59.6	63.6			6.49
	Primidone	93.6	59.2	68.0			13.8

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1875092, 1875093, 1875094, 1875099, 1875100, 1875105, 1875106
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1875132, 1875133
SM 2120 B / E31780	True Color measured at 450 nm	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1875132, 1875133

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	02/23/2017			02/23/2017 15:13	Sima Feizi	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
EPA 300.0 Rev. 2.1	02/23/2017			03/09/2017	Elisa J Lutz	1875102
	02/23/2017			03/10/2017	Elisa J Lutz	1875086, 1875087, 1875088, 1875095, 1875096, 1875101
EPA 350.1 Rev. 2.0	02/23/2017			02/24/2017	Sofia Elnemr	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
EPA 351.2 Rev. 2.0	02/23/2017	02/24/2017	Adrian Shelby	02/28/2017	Joseph Suarez	1875089, 1875090, 1875091, 1875097
	02/23/2017	02/27/2017	Adrian Shelby	02/28/2017	Joseph Suarez	1875098, 1875103, 1875104
EPA 353.2 Rev. 2.0	02/23/2017			02/28/2017	Beverly Y. Sanders	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
EPA 365.1 Rev. 2.0	02/23/2017	02/24/2017	Vijayalakshmi Reddy	02/27/2017	Lipi Saha	1875089
	02/23/2017	02/27/2017	Vijayalakshmi Reddy	02/27/2017	Lipi Saha	1875097, 1875098, 1875103, 1875104
	02/23/2017	02/27/2017	Vijayalakshmi Reddy	02/28/2017	Lipi Saha	1875090, 1875091
EPA 365.1 Rev. 2.0 dissolved	02/23/2017			02/23/2017 14:53	Julia Storbeck	1875099
	02/23/2017			02/23/2017 15:08	Julia Storbeck	1875092
	02/23/2017			02/23/2017 15:09	Julia Storbeck	1875093
	02/23/2017			02/23/2017 15:10	Julia Storbeck	1875094, 1875100
	02/23/2017			02/23/2017 15:11	Julia Storbeck	1875105
	02/23/2017			02/23/2017 15:12	Julia Storbeck	1875106
EPA 8321B	02/23/2017	02/24/2017	Mohammad Ghaffari	02/24/2017	Mohammad Ghaffari	1875132, 1875133
SM 2120 B	02/23/2017			02/23/2017 15:53	Julie Michelle Frank	1875086
	02/23/2017			02/23/2017 15:54	Julie Michelle Frank	1875087
	02/23/2017			02/23/2017 15:55	Julie Michelle Frank	1875088, 1875095
	02/23/2017			02/23/2017 15:56	Julie Michelle Frank	1875096
	02/23/2017			02/23/2017 15:58	Julie Michelle Frank	1875101
	02/23/2017			02/23/2017 16:14	Julie Michelle Frank	1875102
SM 2320 B-97	02/23/2017			03/01/2017	Dale L. Simmons	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 2540 C-97	02/23/2017			02/27/2017	Sima Feizi	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 2540 D-97	02/23/2017			02/27/2017	Sima Feizi	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 4500 F-C-97	02/23/2017			03/03/2017	Dale L. Simmons	1875086, 1875087, 1875088, 1875095, 1875096, 1875101, 1875102
SM 5310 B-00	02/23/2017			02/25/2017	Julie Michelle Frank	1875089, 1875090, 1875091, 1875097, 1875098, 1875103, 1875104
USGS O-2060-01	02/23/2017	03/01/2017	Hoor Shaik	03/02/2017	Juyoung Kim	1875132, 1875133