

Chemical Analysis Report

SE-DIST-2018-02-01-01

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

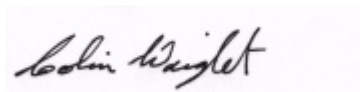
Event Description: **SMP- Fort Pierce Run**
Request ID: **RQ-2018-01-29-61**
Customer: **SE-DIST**
Project ID: **SMP**

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

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Certified by: Colin Wright, Program Administrator

Date Certified: 27-FEB-2018 15:10

A handwritten signature in black ink, appearing to read "Colin Wright", is written on a light-colored rectangular background.

Case Narrative

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

Results for the following analytical groups are included in this report: Metals, 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: C-25 Canal West @ Godwin

Collection Date/Time: 01/31/2018 10:00

Field ID: G2SE0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963613	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P339172	
	EPA 300.0 Rev. 2.1	Chloride	160		mg Cl/L	P339697	
		Sulfate	85		mg SO4/L	P339702	
	SM 2120 B	Color (true)	70		PCU	P339193	
	SM 2320 B-97	Total Alkalinity	192		mg CaCO3/L	P339515	
	SM 2540 C-97	TDS	640		mg/L	P339635	
	SM 2540 D-97	TSS	2	I	mg/L	P339534	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P340385	
1963614	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P339678	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P339224	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.038		mg N/L	P339244	
	EPA 365.1 Rev. 2.0	Total-P	0.068		mg P/L	P339339	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P339520	
1963615	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.049		mg P/L	P339203	

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: Fort Pierce Farms Canal @ Taylor Dairy

Collection Date/Time: 01/31/2018 10:40

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963610	EPA 180.1 Rev. 2.0	Turbidity	4.4	A	NTU	P339172	
	EPA 300.0 Rev. 2.1	Chloride	380		mg Cl/L	P339697	
		Sulfate	97		mg SO4/L	P339702	
	SM 2120 B	Color (true)	41		PCU	P339193	
	SM 2320 B-97	Total Alkalinity	180		mg CaCO3/L	P339515	
	SM 2540 C-97	TDS	1.00E+03		mg/L	P339635	
	SM 2540 D-97	TSS	4	I	mg/L	P339533	
	SM 4500 F-C-97	Fluoride	0.49		mg F/L	P340385	
1963611	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P339676	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P339224	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.060		mg N/L	P339244	
	EPA 365.1 Rev. 2.0	Total-P	0.079		mg P/L	P339339	
	SM 5310 B-00	Organic Carbon	9.4		mg C/L	P339520	
1963612	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.031		mg P/L	P339203	

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: Moores Creek @ 7th

Collection Date/Time: 01/31/2018 11:05

Field ID: G2SE0021

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963619	EPA 180.1 Rev. 2.0	Turbidity	6.2		NTU	P339172	
	SM 2320 B-97	Total Alkalinity	119		mg CaCO3/L	P339728	
	SM 2540 D-97	TSS	6	I	mg/L	P339537	

Field ID: G2SE0021

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963619	SM 4500 F-C-97	Fluoride	0.84		mg F/L	P339653	
1963621	EPA 350.1 Rev. 2.0	Ammonia-N	0.19		mg N/L	P339681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P339223	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P339528	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P339337	
	SM 5310 B-00	Organic Carbon	4.0		mg C/L	P339520	
1963623	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.075		mg P/L	P339202	
1963646	EPA 8321B	2,4-D	0.0020	U	ug/L	P339135	
		Sucralose**	0.091		ug/L	P339296	
		Bentazon	0.0014	I	ug/L	P339135	MS
		MCP	0.0020	U	ug/L	P339135	MS
		Triclopyr**	0.0040	U	ug/L	P339135	
		Imidacloprid	0.0020	U	ug/L	P339135	MS
		Diuron	0.0046	I	ug/L	P339135	
		Primidone**	0.0040	U	ug/L	P339135	
		Linuron	0.0040	U	ug/L	P339135	
		Acetaminophen**	0.0080	U	ug/L	P339135	
		Fenuron	0.0080	U	ug/L	P339135	
		Carbamazepine**	7.1E-04	I	ug/L	P339135	
		Fluridone**	0.0014	I	ug/L	P339135	
1963648	EPA 200.7 Rev. 4.4	Iron	330	I	ug/L	P339506	
	EPA 200.8 Rev. 5.4	Arsenic	2.49		ug/L	P339506	
		Cadmium	0.10	U	ug/L	P339506	
		Chromium	1.2	U	ug/L	P339506	
		Copper	0.71	I	ug/L	P339506	
		Lead	1.1	I	ug/L	P339506	
		Nickel	0.60	U	ug/L	P339506	
		Silver	0.050	U	ug/L	P339506	
		Zinc	4.4	I	ug/L	P339506	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Moores Creek @ 2nd

Collection Date/Time: 01/31/2018 11:30

Field ID: G2SE0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963620	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P339172	
	SM 2320 B-97	Total Alkalinity	95		mg CaCO3/L	P339728	
	SM 2540 D-97	TSS	3	UA	mg/L	P339537	
	SM 4500 F-C-97	Fluoride	0.50	I	mg F/L	P339653	
1963622	EPA 350.1 Rev. 2.0	Ammonia-N	0.39		mg N/L	P339681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P339223	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P339528	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P339337	
	SM 5310 B-00	Organic Carbon	8.3		mg C/L	P339269	

Field ID: G2SE0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963624	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P339202	
1963647	EPA 8321B	2,4-D	0.0020	U	ug/L	P339135	
		Sucralose**	0.25		ug/L	P339296	
		Bentazon	0.0023	I	ug/L	P339135	MS
		MCPP	0.0020	U	ug/L	P339135	MS
		Triclopyr**	0.0040	U	ug/L	P339135	
		Imidacloprid	0.0021	I	ug/L	P339135	MS
		Diuron	0.013		ug/L	P339135	
		Primidone**	0.0040	U	ug/L	P339135	
		Linuron	0.0040	U	ug/L	P339135	
		Acetaminophen**	0.012	I	ug/L	P339135	
		Fenuron	0.0080	U	ug/L	P339135	
		Carbamazepine**	8.2E-04	I	ug/L	P339135	
		Fluridone**	0.0025		ug/L	P339135	
1963649	EPA 200.7 Rev. 4.4	Iron	210	I	ug/L	P339506	
	EPA 200.8 Rev. 5.4	Arsenic	1.24		ug/L	P339506	
		Cadmium	0.080	U	ug/L	P339506	
		Chromium	1.6	U	ug/L	P339506	
		Copper	0.80	U	ug/L	P339506	
		Lead	0.50	I	ug/L	P339506	
		Nickel	0.80	U	ug/L	P339506	
		Silver	0.040	U	ug/L	P339506	
		Zinc	4.0	U	ug/L	P339506	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: South IRL @ Melody Lane Pier

Collection Date/Time: 01/31/2018 12:00

Field ID: G2SE0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963616	EPA 180.1 Rev. 2.0	Turbidity	19		NTU	P339172	
	SM 2320 B-97	Total Alkalinity	119		mg CaCO3/L	P339728	
	SM 2540 D-97	TSS	32		mg/L	P339537	
	SM 4500 F-C-97	Fluoride	1.3		mg F/L	P339653	
1963617	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P339681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P339223	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P339527	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P339337	
	SM 5310 B-00	Organic Carbon	1.7	I	mg C/L	P339269	
1963618	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P339202	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Five-mile Creek @ Okeechobee

Collection Date/Time: 01/31/2018 13:30

Field ID: G2SE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963628	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P339172	
	EPA 300.0 Rev. 2.1	Chloride	260		mg Cl/L	P339697	
		Sulfate	100		mg SO4/L	P339702	
	SM 2120 B	Color (true)	46	A	PCU	P339194	
	SM 2320 B-97	Total Alkalinity	201		mg CaCO3/L	P339515	
	SM 2540 C-97	TDS	801		mg/L	P339636	
	SM 2540 D-97	TSS	10	I	mg/L	P339534	
	SM 4500 F-C-97	Fluoride	0.45		mg F/L	P340385	
1963629	EPA 350.1 Rev. 2.0	Ammonia-N	0.062		mg N/L	P339370	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.64		mg N/L	P339224	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.052		mg N/L	P339332	
	EPA 365.1 Rev. 2.0	Total-P	0.093		mg P/L	P339339	
	SM 5310 B-00	Organic Carbon	9.9		mg C/L	P339521	
1963630	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.034		mg P/L	P339203	

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: Ten-mile Creek @ Gordy

Collection Date/Time: 01/31/2018 14:00

Field ID: G2SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963625	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P339172	
	EPA 300.0 Rev. 2.1	Chloride	460		mg Cl/L	P339697	
		Sulfate	120		mg SO4/L	P339702	
	SM 2120 B	Color (true)	27		PCU	P339193	
	SM 2320 B-97	Total Alkalinity	203		mg CaCO3/L	P339515	
	SM 2540 C-97	TDS	1.22E+03		mg/L	P339636	
	SM 2540 D-97	TSS	6	I	mg/L	P339534	
	SM 4500 F-C-97	Fluoride	0.42		mg F/L	P340385	
1963626	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P339678	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P339224	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.054		mg N/L	P339332	
	EPA 365.1 Rev. 2.0	Total-P	0.089		mg P/L	P339339	
	SM 5310 B-00	Organic Carbon	7.9		mg C/L	P339520	
1963627	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.040		mg P/L	P339203	
1963650	EPA 200.7 Rev. 4.4	Calcium	132		mg/L	P339412	
		Iron	320		ug/L	P339412	
		Magnesium	44.5		mg/L	P339412	
		Potassium	8.7		mg/L	P339412	
		Sodium	241		mg/L	P339412	
		Zinc	5.0	U	ug/L	P339412	
	EPA 200.8 Rev. 5.4	Arsenic	0.79		ug/L	P339412	
		Cadmium	0.020	U	ug/L	P339412	
		Chromium	0.42	I	ug/L	P339412	
		Copper	1.81		ug/L	P339412	

Field ID: G2SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1963650	EPA 200.8 Rev. 5.4	Lead	0.18	I	ug/L	P339412	
		Nickel	0.46	I	ug/L	P339412	
		Silver	0.010	U	ug/L	P339412	

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: P339172

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339412

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339506

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339412

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339506

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339506

Component	Result	Code	Units
Zinc	1.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339697

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339702

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339370

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339676

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339678

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339681

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339223

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339224

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339244

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339332

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339527

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339528

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P339337

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P339339

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P339202

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P339203

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

Reference Method: EPA 8321B
Batch ID: P339135

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P339135

Component	Result	Code	Units
Diuron	0.0020	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P339296

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P339193

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P339194

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P339515

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

Reference Method: SM 2320 B-97
Batch ID: P339728

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

Reference Method: SM 2540 C-97
Batch ID: P339635

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P339636

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P339533

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P339534

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P339537

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P339653

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P340385

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P339269

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

Reference Method: SM 5310 B-00
Batch ID: P339520

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

Reference Method: SM 5310 B-00
Batch ID: P339521

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339412

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	111		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	108		P	85 - 115
Sodium	110		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	99.7		P	85 - 115
Copper	98.7		P	85 - 115
Lead	100		P	85 - 115
Nickel	100		P	85 - 115
Silver	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	98.9		P	85 - 115
Chromium	99.8		P	85 - 115
Copper	99.1		P	85 - 115
Lead	103		P	85 - 115
Nickel	101		P	85 - 115
Silver	86.7		P	85 - 115
Zinc	97.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339697

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339702

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.1		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339370

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339676

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339678

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339681

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339223

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339224

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339244

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339332

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P339337

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P339339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P339202

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P339203

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

Reference Method: EPA 8321B
Batch ID: P339135

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	68.1		P	40 - 150
Acetaminophen	96.9		P	30 - 150
Bentazon	82.7		P	30 - 150
Carbamazepine	95.0		P	40 - 150
Diuron	79.2		P	40 - 150
Fenuron	102		P	40 - 150
Fluridone	84.6		P	40 - 150
Imidacloprid	98.6		P	40 - 160
Linuron	89.4		P	40 - 150
MCP	68.2		P	40 - 150
Primidone	107		P	40 - 150
Triclopyr	67.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P339296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	105		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P339515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.0		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P339728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P339653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.3		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P340385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P339269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P339520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.4		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P339521

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1964072	Calcium	105		P	80 - 120
1964072	Iron	110		P	80 - 120
1964072	Magnesium	107		P	80 - 120
1964072	Potassium	103		P	80 - 120
1964072	Sodium	103		P	80 - 120
1964072	Zinc	105		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1964537	Calcium	104		P	80 - 120
1964537	Iron	111	110	P/P	80 - 120
1964537	Magnesium	106		P	80 - 120
1964537	Potassium	105	105	P/P	80 - 120
1964537	Sodium	106	106	P/P	80 - 120
1964537	Zinc	103	102	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963648	Iron	104	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1964072	Arsenic	102		P	80 - 120
1964072	Cadmium	102		P	80 - 120
1964072	Chromium	95.7		P	80 - 120
1964072	Copper	95.8		P	80 - 120
1964072	Lead	99.7		P	80 - 120
1964072	Nickel	96.7		P	80 - 120
1964072	Silver	98.0		P	80 - 120
1964537	Arsenic	102	102	P/P	80 - 120
1964537	Cadmium	103	103	P/P	80 - 120
1964537	Chromium	98.4	97.8	P/P	80 - 120
1964537	Copper	95.6	95.9	P/P	80 - 120
1964537	Lead	101	101	P/P	80 - 120
1964537	Nickel	97.3	97.7	P/P	80 - 120
1964537	Silver	100	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963648	Arsenic	104	105	P/P	80 - 120
1963648	Cadmium	85.6	83.5	P/P	80 - 120
1963648	Chromium	89.1	89.2	P/P	70 - 130
1963648	Copper	96.9	98.2	P/P	80 - 120
1963648	Lead	107	109	P/P	80 - 120
1963648	Nickel	106	106	P/P	80 - 120
1963648	Silver	74.9	74.1	P/P	70 - 130
1963648	Zinc	80.8	81.1	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963717	Chloride	96.2		P	90 - 110
1963747	Chloride	95.8		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963717	Sulfate	94.8		P	90 - 110
1963747	Sulfate	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963460	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963422	Ammonia-N	101	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963952	Ammonia-N	100	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963617	Ammonia-N	107	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963677	Kjeldahl Nitrogen	94.4	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963626	Kjeldahl Nitrogen	91.6	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963512	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963626	NO2NO3-N	102	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P339527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963056	NO2NO3-N	105	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P339528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963621	NO2NO3-N	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P339337

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1964039	Total-P	93.6	90.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P339339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963697	Total-P	95.3	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P339202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963495	O-Phosphate-P	98.0	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P339203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963627	O-Phosphate-P	96.3	97.3	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P339135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963382	2,4-D	50.4	52.5	P/P	40 - 150
1963382	Acetaminophen	109	107	P/P	30 - 150
1963382	Bentazon	29.7	30.0	F/F	30 - 150
1963382	Carbamazepine	86.3	83.9	P/P	40 - 150
1963382	Diuron	65.6	68.2	P/P	40 - 150
1963382	Fenuron	80.7	81.7	P/P	40 - 150
1963382	Fluridone	68.0	66.6	P/P	40 - 150
1963382	Imidacloprid	161	148	F/P	40 - 160
1963382	Linuron	78.2	77.6	P/P	40 - 150
1963382	MCP	39.1	38.2	F/F	40 - 150
1963382	Primidone	109	104	P/P	40 - 150
1963382	Triclopyr	45.9	45.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P339296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963387	Sucralose	116	112	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P340385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963695	Fluoride	95.8	95.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P339269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963056	Organic Carbon	99.0	98.1	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P339520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963455	Organic Carbon	109		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P339521

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963629	Organic Carbon	94.2	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P339172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963610	Turbidity	0.686	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1964537	Calcium	0.0363	Spike	P	0 - 20
1964537	Iron	1.18	Spike	P	0 - 20
1964537	Magnesium	1.20	Spike	P	0 - 20
1964537	Potassium	0.00479	Spike	P	0 - 20
1964537	Sodium	0.305	Spike	P	0 - 20
1964537	Zinc	0.933	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P339506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963648	Iron	0.704	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1964537	Arsenic	0.0418	Spike	P	0 - 20
1964537	Cadmium	0.292	Spike	P	0 - 20
1964537	Chromium	0.626	Spike	P	0 - 20
1964537	Copper	0.298	Spike	P	0 - 20
1964537	Lead	0.533	Spike	P	0 - 20
1964537	Nickel	0.406	Spike	P	0 - 20
1964537	Silver	0.734	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P339506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963648	Arsenic	0.500	Spike	P	0 - 20
1963648	Cadmium	2.52	Spike	P	0 - 20
1963648	Chromium	0.0283	Spike	P	0 - 20
1963648	Copper	1.27	Spike	P	0 - 20
1963648	Lead	1.44	Spike	P	0 - 20
1963648	Nickel	0.0740	Spike	P	0 - 20
1963648	Silver	0.981	Spike	P	0 - 20
1963648	Zinc	0.363	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963717	Chloride	0.995	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P339702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963717	Sulfate	1.57	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963460	Ammonia-N	0.406	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963422	Ammonia-N	1.53	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963952	Ammonia-N	1.66	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963617	Ammonia-N	0.799	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963677	Kjeldahl Nitrogen	9.55	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P339224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963626	Kjeldahl Nitrogen	10.6	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963512	NO2NO3-N	0.332	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963626	NO2NO3-N	1.16	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963056	NO2NO3-N	0.396	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P339528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963621	NO2NO3-N	0.406	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P339337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1964039	Total-P	3.77	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P339339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963697	Total-P	3.10	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P339202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963495	O-Phosphate-P	0.488	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P339203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963627	O-Phosphate-P	0.729	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P339135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963382	2,4-D	3.75	Spike	P	0 - 30
1963382	Acetaminophen	1.85	Spike	P	0 - 30
1963382	Bentazon	0.771	Spike	P	0 - 30
1963382	Carbamazepine	2.69	Spike	P	0 - 30
1963382	Diuron	3.84	Spike	P	0 - 30
1963382	Fenuron	1.13	Spike	P	0 - 30
1963382	Fluridone	2.17	Spike	P	0 - 30
1963382	Imidacloprid	7.68	Spike	P	0 - 30
1963382	Linuron	0.693	Spike	P	0 - 30
1963382	MCP	2.30	Spike	P	0 - 30
1963382	Primidone	4.59	Spike	P	0 - 30
1963382	Triclopyr	2.13	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P339296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963387	Sucralose	3.87	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P339193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963502	Color (true)	1.56	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P339194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963628	Color (true)	4.55	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P339515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963824	Total Alkalinity	0.431	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P339728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963860	Total Alkalinity	0.519	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P339635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963502	TDS	1.28	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P339636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963696	TDS	1.13	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P339653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963619	Fluoride	0.986	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P340385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963695	Fluoride	0.473	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P339269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963056	Organic Carbon	0.769	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P339520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963455	Organic Carbon	0.430	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P339521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1963629	Organic Carbon	0.970	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 1963646
Field Sample ID: G2SE0021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	62.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	130	P	30 - 160
EPA 8321B	Carbamazepine-d10	124	P	30 - 160
EPA 8321B	Diuron-d6	101	P	30 - 160
EPA 8321B	Primidone-d5	146	P	30 - 160
EPA 8321B	Sucralose-d6	75.0	P	40 - 160

Lab Sample ID: 1963647
Field Sample ID: G2SE0023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	57.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.7	P	30 - 160
EPA 8321B	Diuron-d6	83.5	P	30 - 160
EPA 8321B	Primidone-d5	117	P	30 - 160
EPA 8321B	Sucralose-d6	96.1	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A81797

Included Lab Sample IDs: 1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628

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

Reference Method: SM 2120 B

Run ID: A81803

Included Lab Sample IDs: 1963610, 1963613, 1963625, 1963628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	104	P/P	85 - 115
Color (true)	103	102	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A81805

Included Lab Sample IDs: 1963612, 1963615, 1963618, 1963623, 1963624, 1963627, 1963630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	100	99.9	P/P	90 - 110
O-Phosphate-P	99.1	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81821

Included Lab Sample IDs: 1963611, 1963614

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

Reference Method: SM 5310 B-00

Run ID: A81830

Included Lab Sample IDs: 1963617, 1963622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81847

Included Lab Sample IDs: 1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	98.4	P/P	90 - 110
Kjeldahl Nitrogen	94.3	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81855

Included Lab Sample IDs: 1963626, 1963629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81866

Included Lab Sample IDs: 1963611, 1963614, 1963621, 1963622, 1963626, 1963629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.6	P/P	90 - 110
Total-P	98.6	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81869

Included Lab Sample IDs: 1963617

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A81871

Included Lab Sample IDs: 1963629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A81909

Included Lab Sample IDs: 1963650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	95.3	96.8	P/P	90 - 110
Cadmium	96.0	97.6	P/P	90 - 110
Chromium	93.4	93.7	P/P	90 - 110
Copper	95.1	96.4	P/P	90 - 110
Lead	95.3	97.4	P/P	90 - 110
Nickel	94.9	96.0	P/P	90 - 110
Silver	93.2	94.8	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A81911

Included Lab Sample IDs: 1963650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	100	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	98.7	98.6	P/P	90 - 110
Sodium	98.9	99.9	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A81913

Included Lab Sample IDs: 1963610, 1963613, 1963625, 1963628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.5	94.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A81915

Included Lab Sample IDs: 1963611, 1963614, 1963621, 1963626, 1963629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.1	93.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81917

Included Lab Sample IDs: 1963617, 1963621, 1963622

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

Reference Method: EPA 8321B

Run ID: A81928

Included Lab Sample IDs: 1963646, 1963647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	105	101	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A81930

Included Lab Sample IDs: 1963646, 1963647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.4	93.4	P/P	50 - 150
Acetaminophen	116	126	P/P	60 - 150
Acetaminophen	125	116	P/P	60 - 150
Bentazon	129	130	P/P	50 - 150
Carbamazepine	113	115	P/P	60 - 150
Carbamazepine	115	116	P/P	60 - 150
Diuron	115	116	P/P	60 - 150
Diuron	116	121	P/P	60 - 150
Fenuron	107	108	P/P	60 - 150
Fenuron	108	111	P/P	60 - 150
Fluridone	109	114	P/P	60 - 160
Fluridone	114	115	P/P	60 - 160
Imidacloprid	106	106	P/P	60 - 150
Imidacloprid	106	113	P/P	60 - 150
Linuron	118	133	P/P	60 - 150
Linuron	133	128	P/P	60 - 150
MCPP	97.8	100	P/P	50 - 150
Primidone	110	120	P/P	60 - 150
Primidone	120	97.2	P/P	60 - 150
Triclopyr	100	97.4	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A81944

Included Lab Sample IDs: 1963648, 1963649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	99.3	98.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A81946

Included Lab Sample IDs: 1963616, 1963619, 1963620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A81964

Included Lab Sample IDs: 1963611, 1963614, 1963617, 1963621, 1963622, 1963626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	101	P/P	90 - 110
Ammonia-N	103	103	P/P	90 - 110
Ammonia-N	103	101	P/P	90 - 110
Ammonia-N	98.8	103	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A81967

Included Lab Sample IDs: 1963648, 1963649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	101	101	P/P	90 - 110
Arsenic	99.4	102	P/P	90 - 110
Cadmium	95.3	94.7	P/P	90 - 110
Cadmium	96.2	94.9	P/P	90 - 110
Copper	100	102	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Lead	98.3	99.3	P/P	90 - 110
Lead	99.1	98.9	P/P	90 - 110
Nickel	100	102	P/P	90 - 110
Nickel	102	102	P/P	90 - 110
Silver	95.8	95.3	P/P	90 - 110
Silver	96.2	95.4	P/P	90 - 110
Zinc	98.3	99.8	P/P	90 - 110
Zinc	99.4	99.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A81969

Included Lab Sample IDs: 1963610, 1963613, 1963625, 1963628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.4	P/P	90 - 110
Chloride	99.4	98.8	P/P	90 - 110
Sulfate	97.9	99.9	P/P	90 - 110
Sulfate	99.6	97.9	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A81981

Included Lab Sample IDs: 1963616, 1963619, 1963620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	98.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A82065

Included Lab Sample IDs: 1963648, 1963649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	96.7	96.9	P/P	90 - 110
Chromium	96.9	97.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A82220

Included Lab Sample IDs: 1963610, 1963613, 1963625, 1963628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.1	98.1	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.686	
EPA 200.7 Rev. 4.4	Calcium	108	105	104				0.0363
	Iron	111	110	111	110			1.18
	Iron	105	104	105				0.704
	Magnesium	108	107	106				1.20
	Potassium	108	103	105	105			0.0047
	Sodium	110	103	106	106			0.305
	Zinc	104	105	103	102			0.933
EPA 200.8 Rev. 5.4	Arsenic	102	102	102	102			0.0418
	Arsenic	102	104	105				0.500
	Cadmium	104	102	103	103			0.292
	Cadmium	98.9	85.6	83.5				2.52
	Chromium	99.7	95.7	98.4	97.8			0.626
	Chromium	99.8	89.1	89.2				0.0283
	Copper	98.7	95.8	95.6	95.9			0.298
	Copper	99.1	96.9	98.2				1.27
	Lead	100	99.7	101	101			0.533
	Lead	103	107	109				1.44
	Nickel	100	96.7	97.3	97.7			0.406
	Nickel	101	106	106				0.0740
	Silver	100	98.0	100	101			0.734
	Silver	86.7	74.9	74.1				0.981
	Zinc	97.7	80.8	81.1				0.363
EPA 300.0 Rev. 2.1	Chloride	95.7	96.2	95.8			0.995	
	Sulfate	94.1	94.8	94.8			1.57	
EPA 350.1 Rev. 2.0	Ammonia-N	101	101	100				0.406
	Ammonia-N	95.6	101	99.0				1.53
	Ammonia-N	98.1	100	102				1.66
	Ammonia-N	97.3	107	108				0.799
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.8	94.4	105				9.55
	Kjeldahl Nitrogen	105	91.6	108				10.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 353.2 Rev. 2.0	NO2NO3-N	106	103	104			0.332
	NO2NO3-N	104	102	103			1.16
	NO2NO3-N	103	105	105			0.396
	NO2NO3-N	103	105	105			0.406
EPA 365.1 Rev. 2.0	Total-P	100	93.6	90.1			3.77
	Total-P	99.6	95.3	98.6			3.10
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7	98.0	98.9			0.488
	O-Phosphate-P	103	96.3	97.3			0.729
EPA 8321B	2,4-D	68.1	52.5	50.4			3.75
	Acetaminophen	96.9	109	107			1.85
	Bentazon	82.7	30.0	29.7			0.771
	Carbamazepine	95.0	86.3	83.9			2.69
	Diuron	79.2	65.6	68.2			3.84
	Fenuron	102	80.7	81.7			1.13
	Fluridone	84.6	68.0	66.6			2.17
	Imidacloprid	98.6	161	148			7.68
	Linuron	89.4	78.2	77.6			0.693
	MCPPP	68.2	38.2	39.1			2.30
	Primidone	107	109	104			4.59
	Sucralose	105	116	112			3.87
	Triclopyr	67.6	45.0	45.9			2.13
SM 2120 B	Color (true)					1.56	
	Color (true)					4.55	
SM 2320 B-97	Total Alkalinity	96.0				0.431	
	Total Alkalinity	97.0				0.519	
SM 2540 C-97	TDS					1.28	
	TDS					1.13	
SM 4500 F-C-97	Fluoride	96.3					0.986
	Fluoride	97.1	95.8	95.2			0.473
SM 5310 B-00	Organic Carbon	98.4	99.0	98.1			0.769
	Organic Carbon	93.4	109				0.430
	Organic Carbon	94.0	94.2	95.6			0.970

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1963648, 1963649, 1963650
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1963648, 1963649, 1963650
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1963610, 1963613, 1963625, 1963628
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1963610, 1963613, 1963625, 1963628
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1963612, 1963615, 1963618, 1963623, 1963624, 1963627, 1963630
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1963646, 1963647
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1963646, 1963647
SM 2120 B / E31780	True Color measured at 450 nm	1963610, 1963613, 1963625, 1963628
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1963610, 1963613, 1963625, 1963628
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629

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	02/01/2018			02/01/2018 16:00	DeAsia Armster	1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628
EPA 200.7 Rev. 4.4	02/01/2018	02/06/2018	Elliott D. Healy	02/07/2018	Betina Topolski	1963650
	02/01/2018	02/07/2018	Elliott D. Healy	02/08/2018	Martin Acosta	1963648, 1963649
EPA 200.8 Rev. 5.4	02/01/2018	02/06/2018	Elliott D. Healy	02/07/2018	Robert K Palmer	1963650
	02/01/2018	02/07/2018	Elliott D. Healy	02/09/2018	Nadine Brooks	1963648, 1963649
	02/01/2018	02/07/2018	Elliott D. Healy	02/14/2018	Nadine Brooks	1963648, 1963649
EPA 300.0 Rev. 2.1	02/01/2018			02/09/2018	Julia Storbeck	1963610, 1963613, 1963625, 1963628
EPA 350.1 Rev. 2.0	02/01/2018			02/05/2018	Ping Hua	1963629
	02/01/2018			02/09/2018	Julia Storbeck	1963611, 1963614, 1963617, 1963621, 1963622, 1963626
EPA 351.2 Rev. 2.0	02/01/2018	02/02/2018	Adrian Shelby	02/05/2018	Joseph Suarez	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629
EPA 353.2 Rev. 2.0	02/01/2018			02/02/2018	Lauren Bottorf	1963611, 1963614
	02/01/2018			02/05/2018	Lauren Bottorf	1963626, 1963629
	02/01/2018			02/08/2018	Beverly Y. Sanders	1963617, 1963621, 1963622
EPA 365.1 Rev. 2.0	02/01/2018	02/05/2018	Sima Feizi	02/06/2018	Beverly Y. Sanders	1963611, 1963614, 1963617, 1963621, 1963622, 1963626, 1963629
EPA 365.1 Rev. 2.0 dissolved	02/01/2018			02/01/2018 15:34	Megan Treadwell	1963627
	02/01/2018			02/01/2018 15:41	Megan Treadwell	1963615
	02/01/2018			02/01/2018 15:42	Megan Treadwell	1963618
	02/01/2018			02/01/2018 15:43	Megan Treadwell	1963623, 1963624
	02/01/2018			02/01/2018 15:45	Megan Treadwell	1963630
	02/01/2018			02/01/2018 16:13	Megan Treadwell	1963612
EPA 8321B	02/01/2018	02/01/2018	Hoor Shaik	02/04/2018	Julie Michelle Frank	1963646, 1963647
	02/01/2018	02/01/2018	Hoor Shaik	02/05/2018	Julie Michelle Frank	1963646, 1963647
	02/01/2018	02/06/2018	Juyoung Kim	02/07/2018	Juyoung Kim	1963646, 1963647
SM 2120 B	02/01/2018			02/01/2018 15:55	Tanya Welborn	1963610
	02/01/2018			02/01/2018 15:56	Tanya Welborn	1963613
	02/01/2018			02/01/2018 15:57	Tanya Welborn	1963625
	02/01/2018			02/01/2018 16:01	Tanya Welborn	1963628
SM 2320 B-97	02/01/2018			02/08/2018	Lauren Bottorf	1963610, 1963613, 1963625, 1963628
	02/01/2018			02/09/2018	Lauren Bottorf	1963616, 1963619, 1963620
SM 2540 C-97	02/01/2018			02/02/2018	DeAsia Armster	1963610, 1963613, 1963625, 1963628
SM 2540 D-97	02/01/2018			02/02/2018	DeAsia Armster	1963610, 1963613, 1963616, 1963619, 1963620, 1963625, 1963628
SM 4500 F-C-97	02/01/2018			02/09/2018	Lauren Bottorf	1963616, 1963619, 1963620
	02/01/2018			02/22/2018	Dale L. Simmons	1963610, 1963613, 1963625, 1963628
SM 5310 B-00	02/01/2018			02/03/2018	Megan Treadwell	1963617, 1963622
	02/01/2018			02/07/2018	Megan Treadwell	1963611, 1963614, 1963621, 1963626, 1963629